



# 台灣日旭科技股份有限公司

## CANNEX TECHNOLOGY INC.

製造業の自慢.

EMS / OEM / ODM 電子產品全製程服務廠 / 馬達OEM專業製造廠  
Vertically Integrated Electronics Manufacturing / OEM Motor Solutions

### 品質 Quality

品質是公司的生命力  
Quality is our responsibility.

### 快適 Pleasant

友善親切的合作互動  
Building pleasant and reliable partnerships with our customers.

### 信賴 Trust

信賴是我們企業價值的核心,也是我們給客戶不變的堅持。  
Trust is the foundation of our values and our commitment to every customer.



# // 企業簡介 Company Introduction

## 台灣日旭科技股份有限公司 CANNEX TECHNOLOGY INC.

「期望台灣日旭以立足台灣，放眼國際的精神，時時砥礪自己，奮發向上。」

Rooted in Taiwan and driven by a global vision, Cannex continuously advances through innovation, engineering excellence, and manufacturing expertise.

台灣日旭科技公司於 1991 年成立，以研發、創新精神帶領公司茁壯成長。更在 2006 年擴增並進駐現代化廠辦大樓，並添購日本製精密生產設備，建立「研發」、「生產」及「銷貨」一體，垂直整合全製程服務廠。

我們提供客戶整體化服務，加速產品開發上市時間，提供更優質的人才及硬體設備，創造企業競爭力，延續更精緻的客戶服務經驗，凝聚客戶向心力，規劃更永續的企業精神，取得客戶信賴。

Founded in 1991, Cannex Technology Inc. has continuously grown through innovation, engineering expertise, and a strong commitment to quality manufacturing. With the expansion into a modern manufacturing facility in 2006, Cannex further strengthened its capabilities by introducing advanced Japanese precision production equipment and establishing a fully integrated operation encompassing R&D, manufacturing, and sales. Today, Cannex provides vertically integrated OEM/ODM solutions for motors, electronic products, and control systems. From product development and precision design to automated production and global delivery, we offer customers efficient, reliable, and high-quality manufacturing services.

Our integrated development and production model enables customers to shorten time-to-market, improve product competitiveness, and achieve long-term operational reliability. Driven by professionalism, efficiency, and customer-oriented service, Cannex is committed to building long-term partnerships based on quality, trust, and continuous innovation.

## 企業核心價值 Core Values

「品質」、「信賴」、「保密」、「快適」是我們企業價值的核心，也是我們對客戶不變的堅持。  
Quality, Trust, Confidentiality, and Customer Satisfaction are the core values we consistently uphold in every partnership.

## 品質政策 Company Policy

品質是公司的生命力； Quality is the foundation of our business.  
效率是公司的競爭力。 Efficiency drives our competitiveness.

## 識別形象 Brand Identity



- 紅色代表「熱情、活力、創新」
- A 英文「A」代表Advance「發展、進步」
- K 英文「K」代表Knowledge「知識、學識」
- R 英文「R」代表Research「研究、鑽研」

The AKR brand represents our commitment to:

The red color symbolizes passion, energy, and innovation.

- A — Advance Continuous development and progress
- K — Knowledge Professional expertise and technical capability
- R — Research Innovation and continuous engineering improvement

# // 技術深耕 · 驅動未來

## Motor Technology Evolution & Innovation

### ● 2000

研發啟航：正式投入馬達驅動器的設計與開發領域，開啟自主研發之路。

Research and Development Begins: Officially entering the field of motor drive design and development, embarking on the path of independent research and development.

### ● 2000~2026

#### 技術蛻變：

深耕驅動器研發二十載，技術從傳統 AC 系統全面進化至高效能 DC 系統。此階段專注於全球頂尖客戶的驅動器開發與代工 (OEM/ODM)，累積深厚的實務經驗與設備能量。

#### 垂直整合新里程：

為深化產業布局，成立「馬達生產事業部」，全面實現從「客製研發、精密設計、自動化生產到全球出貨」的一站式垂直整合鏈。我們不僅能提供高效能的馬達與驅動器完整解決方案，更具備承接全球 OEM/ODM 代工生產與協同開發的頂尖實力。

#### Technological Transformation:

Two decades of dedicated R&D in drive development, with technology evolving comprehensively from traditional AC systems to high-efficiency DC systems. During this phase, we focused on drive development and OEM/ODM for top global clients, accumulating extensive practical experience and equipment capabilities.

#### A New Milestone in Vertical Integration:

To deepen our industrial layout, we have established the "Motor Manufacturing Division," fully realizing a one-stop vertically integrated chain from "custom R&D, precision design, automated production to global shipping." We not only provide complete solutions for high-performance motors and drives, but also possess top-notch capabilities for global OEM/ODM contract manufacturing and collaborative development.

### 廠內增設「馬達效能測試實驗室」

### In-house addition of a 'Motor Performance Testing Laboratory'



- **馬達效能測試：**開發合乎市場需求且品質完美的馬達產品。
- **環境溫濕度試驗機：**包含溫度變化、反向起動、低高溫起動、不穩定電源及雜訊環境等模擬測試。
- Motor Performance Testing : Capable of developing motors that meet market demands and are of perfect quality.
- Environmental Temperature and Humidity Test Chamber :  
Temperature Variation, Reverse Start, Low and High Temperature Start, Unstable Power Supply and Noise Environment.

## 3D模擬成像 3D Simulation Imaging



- **高功率密度與緊湊化**  
透過將控制板 ( PCB ) 與馬達本體無縫結合，取消了傳統馬達複雜的外部接線，增加安裝的便捷性。
- **優異的散熱管理**  
發熱量大的線圈與功率元件緊貼金屬外殼與端蓋，構成高效的導熱路徑，有利於長時間高負載運作。
- **卓越的製程與組裝性**  
採用軸向堆疊設計，定位銷與標準化介面明確，極利於自動化產線進行快速組裝與檢測，能有效降低不良率。

### Compact & High Power Density

By seamlessly integrating the control board (PCB) with the motor body, the complex external wiring of traditional motors is eliminated, increasing the ease of installation.

### Thermal Management

The high-heat-generating coils and power components are closely attached to the metal casing and end caps, forming an efficient heat conduction path, which is beneficial for long-term high-load operation.

### Design for Assembly, DFA

The axial stacking design, with clearly defined locating pins and standardized interfaces, greatly facilitates rapid assembly and testing on automated production lines, effectively reducing the defect rate.



# // 現代化生產設備 Advanced Production Facilities

台灣日旭建立「研發、生產、銷貨」一體的垂直整合全製程服務。透過引進精密生產設備與自動化作業流程，我們確保每一顆自主品牌的馬達皆具備卓越的效能與品質穩定性。

Cannex has established a vertically integrated end-to-end service encompassing R&D, production, and sales. By introducing precision manufacturing equipment and automated processes, we ensure that every motor under our own brand possesses superior performance and consistent quality.



## ◀ 自動繞線機系統 Automatic Winding Machine System

配備數位監控與高精度排線技術，確保定子線圈槽滿率，為馬達動力之核心。

Equipped with digital monitoring and high-precision wiring technology, it ensures the full fill factor of the stator coil slots, which is the core of motor power.



## 自動槽紙與精密打針機 ▶ Automatic Paper Slotting And Precision Injection Machine

實現自動化絕緣紙置入與精準定位組裝，大幅提升馬達耐壓可靠度與安全性。

It enables automated insertion and precise positioning assembly of insulating paper, significantly improving the motor's dielectric withstand capability, reliability, and safety.



## ◀ 精密工業級油壓機 Precision Industrial-Grade Hydraulic press

執行結構件高強度壓合，確保軸心與軸承之同心度，提升運轉靜謐性與抗震力。

High-strength pressing of structural components ensures concentricity between the shaft and bearings, improving operational quietness and vibration resistance.

## 高能精密充磁系統 High-energy Precision Magnetization System ▶

賦予轉子穩定強大的永久磁性，是提升 DC 無刷馬達轉矩輸出的關鍵工序。



Imbuing the rotor with stable and strong permanent magnetism is a key process for improving the torque output of a DC brushless motor.

## ◀ 自動化 E 扣組裝機 Automated E-button Assembly Machine

精準固定軸向結構，防止零件位移，確保馬達在各種運轉環境下的結構穩定性與長效耐用度。

Precisely fixed axial structure prevents component displacement and ensures the structural stability and long-term durability of the motor under various operating environments.



# // 卓越品質與精密測試 Quality Assurance & Testing

台灣日旭秉持對品質的極致要求，建立全數位化的精密檢測體系。從線圈繞組的安全性驗證到成品動態性能的模擬測試，每一顆馬達均需通過嚴格的品管關卡，確保在各種極端工況下都能展現卓越的穩定性。

Cannex adheres to the highest standards of quality and has established a fully digital precision testing system. From safety verification of coil windings to simulation testing of the dynamic performance of finished products, every motor must pass through strict quality control checkpoints to ensure that it can demonstrate excellent stability under various extreme operating conditions.



## ◀ 線圈綜合自動測試 Coil Integrated Automatic Testing

100% 全檢絕緣耐壓、電阻及電感不平衡。確保電氣結構在多變電壓環境下的絕對安全性。

100% inspection of insulation withstand voltage, resistance, and inductance imbalance. Ensuring the absolute safety of the electrical structure under varying voltage environments.

## ▶ 高斯磁性能測試平台

### Gauss Magnetic Performance Testing Platform

精密掃描轉子磁場強度與對稱性，從源頭優化動力輸出，降低運轉噪音與能源損耗。

Precise scanning of rotor magnetic field strength and symmetry optimizes power output from the source, reducing operating noise and energy loss.



## ▶ 成品動態性能綜合測試機台

### Finished Product Dynamic Performance Comprehensive Testing Machine

數位化採集負載/無負載特性曲線(T-N Curve)、轉矩、轉速及整體效能數據。驗證自主研發馬達能完美兼容 FCU 系統的高效能要求。

Digitally acquire load/no-load characteristic curves (T-N curve), torque, speed, and overall performance data. Verify that the independently developed motor can perfectly meet the high-efficiency requirements of the FCU system.



## ▶ 成品燒機老化測試室

### Finished Product Burn-In Aging Test Chamber

模擬實際運轉環境，對成品進行高強度應力篩選，確保交付予客戶的每一顆馬達皆具備卓越的使用壽命與信賴度。

By simulating real-world operating environments, the finished products undergo high-intensity stress screening to ensure that every motor delivered to customers has an excellent service life and reliability.



# // 國際認證與可靠度驗證 International Certification And Reliability Verification

## 品質管理體系：ISO 9001:2015 國際認證

Quality Management System: ISO 9001:2015 International Certification



- 證書編號：5758
- 認證標準：ISO 9001:2015
- 認證範圍：電子產品 SMT 與 DIP 專業加工服務
- 核心價值：透過國際標準化的流程管理，確保每一批次生產品質一致，實現對客戶「品質穩定、信賴長期」的承諾。

Certificate Number: 5758

Certification Standard: ISO 9001:2015

Certification Scope: Professional SMT and DIP processing services for electronic products

Core Value: Through internationally standardized process management, we ensure consistent quality in every batch of production, fulfilling our promise to our customers of "stable quality and long-term trust".

## 環境可靠度驗證：SGS IP55 防護等級測試

Environmental Reliability Verification: SGS IP55 Protection Rating Test



- 報告編號：YC70013/2025
- 測試產品：F Series BLDC for FCU and BLOWER
- 測試項目：外殼防護等級 (IP Code)
- 技術實力：證實馬達具備優異的防塵與防水能力，能確保在潮濕或粉塵工況下運轉無虞，適應各種嚴苛應用環境。

Report Number: YC70013/2025

Test Product: F Series BLDC for FCU and BLOWER

Test Item: Enclosure protection rating (IP Code)

Technical Strength: The motor has proven to have excellent dustproof and waterproof capabilities, ensuring safe operation in humid or dusty conditions and adapting to various harsh application environments.

## // 產品介紹 Product Introduction

### FCU102 單/雙軸 DC 無刷馬達

### FCU102 Single/Dual Axis DC Brushless Motor



NEW  
旗艦新品

#### Intelligent visualization

The three-speed input signal is equipped with LED indicator lights, making the operating status clearly visible and maintenance more intuitive.

#### Global Voltage Design

It supports three voltage inputs: 110V, 220V, and 277V AC, ensuring compatibility with all three and significantly reducing inventory management pressure.

#### Precision static pressure control

The static pressure can be continuously adjusted to achieve the most precise airflow control required by the environment.

#### High-standard protective structure

With excellent shock resistance and an IP55 water-resistant, you can clean the fan without worry, ensuring long-term stable operation.

- **智慧視覺化**  
三速輸入訊號配備 LED 燈號表示，運作狀態清晰可見，維護更直覺。
- **全球電壓設計**  
支援 110V、220V、277V AC 三種電壓輸入，一機相容，大幅降低庫存管理壓力。
- **精密靜壓調控**  
靜壓可進行高低無段微調設定，達成環境所需的最精準風量控制。
- **高規防護結構**  
具備優異抗震與 IP55 防潑水等級，清洗風機不擔憂，確保長期穩定運作。

### OD140單軸DC無刷馬達

### OD140 Single-Axis DC Brushless Motor



#### High Torque at Low Speed

The multi-pole (10-pole) architecture allows the motor to have high torque without the need for an external speed reducer. This improves the overall transmission efficiency of the system and reduces mechanical wear.

#### Excellent precision control and speed ratio

The more magnetic poles a motor has, the higher its resolution of rotor position during operation (such as FOC vector control). The motor becomes highly responsive to speed commands and offers a wide speed range.

#### Uniform heat distribution and long structural lifespan

The 10-pole stator winding has a more uniform distribution, which can evenly distribute the heat source (copper loss) on the outer edge of the stator. Combined with the heat dissipation fins on the outer shell or forced air cooling, the temperature rise is well controlled, which can significantly extend the insulation life of Class F or Class H coils.

#### Excellent mechanical rigidity and stability

The maximum speed is limited to 1500 RPM, which falls within the low to medium speed range. This means that the centrifugal force experienced by the rotor is significantly less than that of a high-speed motor. As a result, the bearings are less prone to overheating, dynamic balance is easily maintained, and operational reliability is extremely high.

- **低速高轉矩**  
多極數（10極）架構讓馬達在不需外接減速機的情況下，本體就具備高扭力。這提升了系統整體的傳動效率，並減少了機械磨損。
- **優異的精密控制與調速比**  
磁極越多，驅動器（如 FOC 向量控制）在運算時對轉子位置的解析度就越高。馬達對於速度指令的響應非常靈敏，調速範圍寬廣。
- **發熱分布均勻，結構壽命長**  
10極的定子繞組分布更為均勻，能將發熱源（銅損）平均分散在定子外緣，搭配外殼散熱鰭片或強制風冷，溫升控制極佳，能顯著延長 Class F 或 Class H 等級線圈的絕緣壽命。
- **優異的機械剛性與穩定性**  
最高轉速限制在 1500 RPM，屬於中低轉速範圍，這使得轉子所承受的離心力大大小於高速馬達。因此軸承（Bearings）不易過熱，動平衡極易維持，運轉可靠度極高。

## 無人機馬達

## Drone Motor



節能  
30% ↑

**特性：**採用第三類功率半導體氮化鎵(GaN)及正弦波(FOC)馬達驅動技術，推出業界最新，高轉速、高效率、強拉力，無人機馬達動力系統。

**Feature：** Utilizing advanced GaN power semiconductors and FOC sinusoidal motor control technology, Cannex delivers high-speed, high-efficiency, and high-thrust UAV propulsion systems for next-generation drone applications.

## 無刷馬達空調控制系統

## Brushless Motor Air Conditioning Control System



溫度控制器



控制盒



送風機組



**特性：**

採「共構一體」設計，完美集成了電源、控制、驅動與通訊四大功能單元，大幅優化系統安裝與運算效率。

Featuring an all-in-one integrated architecture combining power supply, control, drive, and communication functions to optimize installation efficiency and system performance.

## FCU101 DC 無刷馬達

## FCU101 DC Brushless Motor



**特性：**將FCU送風機更換為直流 EC 馬達，可立即達成 **40% 以上** 的節能成效，實現有感的省錢效益。

**Feature：** Replacing traditional FCU fan motors with high-efficiency EC motors can achieve energy savings exceeding 40%, significantly reducing operational costs and improving building energy efficiency.



Since 1991

**設計/製造**

**台灣日旭科技股份有限公司**  
CANNEX TECHNOLOGY INC.

**總公司**

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**AGENT**

更多產品詳情 



ISO Certification  
No : 5758

