

DYC Series

WIDE APPLICATION IN SURFACE TREATMENT



產業概況 SURFACE TREATMENT TECHNOLOGY OVERVIEW



Surface treatment technology has been improved as the trend of living style is upwards. Therefore, the applications of vacuum coating are no longer limited in decorative coating, such as cosmetics, toys, auto lamp reflector...etc, but evolved into functional coating as the development of electronic products. DAH YOUNG has been involved in long term research and developed NCVM (Non-Conductive Vacuum Metallizer) and EMI (Electromagnetic Interference) vacuum coating equipments. NCVM (Non-Conductive Vacuum Metallizer) process can be

因應流行的趨勢，表面處理的技術也日新月異，從早期僅是為了美觀功能而進行裝飾性鍍膜，應用於化妝品產業、玩具、飾品及汽機車燈；隨著消費性電子產品快速發展，鍍膜科技不斷突破創新，大永真空集團領先業界，研發出專為 NCVM (金屬不導電真空鍍膜) 製程之鍍膜機及 EMI (抗電磁波) 製程之蒸濺兩用鍍膜機。

NCVM 鍍膜機主要針對手機、筆記型電腦及其他 3C 產品所設計。有別於傳統的裝飾性鍍膜，能使表面散發出絢爛的金屬光澤，同時具有不導電特性，避免遮蔽無線通訊電磁波的接收及傳送。

EMI 蒸濺兩用鍍膜機主要應用於各類電機及電子產品，防止電磁輻射干擾現象。獨特的蒸濺兩用設計，可使產品運用更加廣泛；同時兼具蒸鍍及濺鍍優勢，達成快速抽氣效率及膜厚均勻性。

mainly applied to mobile phone, notebook computer and other electronic products. It will result in metallic coating surface, but non-conductive to avoid from affecting the communication quality of electromagnetic wave.

EMI (Electromagnetic Interference) process is specially designed for many kinds of electrical and electronic devices to avoid from interference of electromagnetic. Both thermal evaporation & sputtering processes could achieve high efficiency and good uniformity of coating thickness.

設備特色 KEY FEATURES

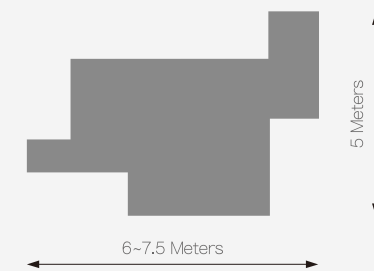
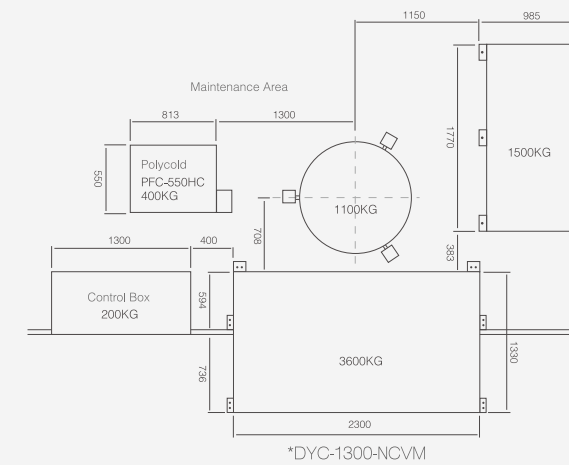
- + 機構設計：特殊公自轉迴轉機構
- + 膜厚均勻：鍍膜顏色光亮，膜厚均勻穩定
- + 操作簡單：採用觸控螢幕及 One Touch 設計
- + 擴充性佳：標準型採雙靶區及多蒸鍍源設計
- + 高速效率：抽氣速度快，可同時使用蒸鍍及濺鍍
- + 特殊設計：特殊蒸濺鍍系統設計，無互相汙染問題
- + 環保節能：無廢水、廢氣汙染，變頻設計可節省成本
- + Special Structure : Planetary turning function.
- + Expandable : Optional double targets and multiple sources.
- + Good Uniformity : Accurate uniformity of coating thickness.
- + Pollution Free : No industrial waste, air, and frequency inverters help reduce energy costs.
- + Easy Operation : One Touch panel design allows for a more efficient operating environment.
- + Special Design : Special Dual design of Thermal and Sputtering System, no interfering pollution problem.
- + High Efficiency : High pumping efficiency, to perform both Sputtering & Thermal Evaporation processes with shorter cycle time.



關鍵組件 KEY COMPONENTS



配置圖 LAYOUT



NOTE :

1. Power Supply : 3Φ · 380V · 50Hz · 90~160KVA
2. Cooling Water Feed : PT1.5" · 60~200L/min · 2~3Kg/cm² · 20~28°C
3. Cooling Water Return : PT1.5" · 0 Kg/cm²
4. Compressed Air Supply : PT3/8" · 5~8 Kg/cm²
5. Air Exhaust : NPT3"

主要規格 SPECIFICATION

Model No.	DYC-1300-BSD	DYC-1600-BSD	DYC-1800-BSD	DYC-1300-NCVM	DYC-1300-ESP
Evaporation Source	1	1	1	2	1
Sputtering Source	—	—	—	—	2 (max.)
Power Source Require (KVA)	90	110	110	90	160
Number of Rotation Reel (set)	6	6 or 8	6 or 8	7 or 14	10 or 14
Usable Size of Reel	Φ 400x6	Φ 480x6 Φ 400x8	Φ 560x6 Φ 460x8	Φ 200x14	Φ 300x10 Φ 200x14
Filament Power Supplier (KVA)	30	30	30	30	30
Diameter of Chamber (mm)	1300	1600	1800	1300	1300
Height of Chamber (mm)	1800	1850	1850	1800	1800
Rotary Pump (M ³ /hr)	630	630	630	630	630
Mechanical Pump (M ³ /hr)	2500	4400	4400	2500	2500
Diffusion Pump (L /sec)	40000	40000	40000	40000	40000
Application	Auto Lamp Reflector, Decoration	Auto Lamp Reflector, Decoration	Auto Lamp Reflector, Decoration	NCVM Production	EMI Production
Ultimate Vacuum	5x10 ⁻⁶ Torr				
Pumping Time	To 1x10 ⁻⁴ Torr within 5 mins without polycold in the clear chamber				
Operation Method	Automatic/ Manual/ Semi-automatic				
Polycold	Low Temperature -140°C Polycold Refrigerating Systems				
Vacuum Pressure Measurement	Digital Display : Low Vacuum Gauge + Full Range Gauge				
Operating Controller	Touch Screen Video Display + PLC Control				