



EWA Series Winding Vacuum Film Coater

Application

- Package film, decorative film, gold & silver yarn, reflection film etc.,

Model

- EWA-110C、EWA-135C、EWA-165C、EWA-210C、EWA-250C

Features

- Raw film: PET \OPP\BOPP\PVC and other high molecular plastic film etc.
- Metalization Method
 - Hi-frequency heating, able to realize pinhole free metalization;
 - Resistance heating, able to gain low cost metalization;
- Winding system Adopt digital control method to safeguard each driven motor simultaneous running, meanwhile has high accuracy, excellent repeatability tension control system;
- Film thickness Adopt multiple point on-line test and transmission film thickness control system;
- Film thickness distribution: Flm thickness uniformity is good tolerance is below $\pm 7\%$;
- Pre-treatment system : Adopt plasma cleaning system and heating system to perform pre-treatment of raw material, ensuring high quality film metalization;
- Vacuum Exhaust System
 - Fully imported pump set + import POLYCOLD
 - imported/domestic pumpset combination+import POLYCOLD
 - Fully domestic pump set + import POLYCOLD

System Assemblies

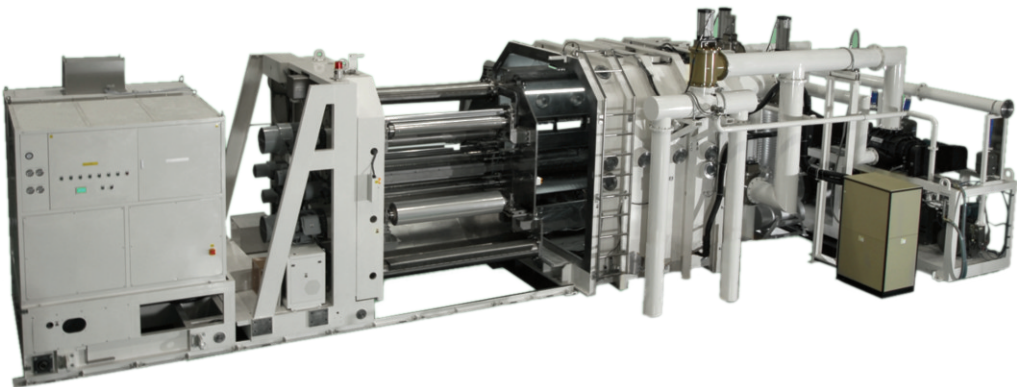
- Vacuum room
- Movable trolley
- Winding system
- Refrigeration & heating system
- Evaporation system
- Film heating system
- Plasma cleaning system
- Vacuum exhaust system
- Vacuum test system
- Film thickness system
- Comressed air system
- Cooling water system
- E-control system
- IPC

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Technical Parameters

Model	EWA-110C	EWA-135C	EWA-165C	EWA-210C	EWA-250C
Vacuum Room Shape	Angular				
Film Condition					
Material & Thickness	PET: 9~50μm, OPP: 20~40μm; CPP: 20~30μm				
Film Width	600~1100mm	800~1350mm	1000~1650mm	1500~2100mm	1900~2500mm
Roll Dia.	Max.φ800mm	Max.φ1150mm			
Core Dia.	6 " Paper tube or hose			6 "、8 " Paper tube or hose	
Winding Condition					
Rolling Mechanical Speed	100~450m/min.		100~600m/min.		
Tension Range	50~400N				100~500N
Rotation Direction	Forward rotation				
Driven System	Relance (Japan) or BOSCH (German) orAB (America)				
Hi-frequency Heating Power	SPC (Japan) or CDOI (China)				
Metalization Condition					
Metalization Condition	Al、Ag etc.				
Metalization Material	Hi-frequency heating/resistance				
Film Thickness Distribution	400Å±7%				
Winding Metalization Speed	400m/min.				
Metalization Length	36000m (PET: 12μm, 400Å)				
Gas Exhaust Time	Less than 14min from ATM to 4.0×10 ⁻³ Pa;				
Operating Pressure	4.0×10 ⁻² Pa below				
Space Layout	about W9m×L13m×H4m	about W9m×L14m×H4m	about W9m×L15m×H4.6m	about W9m×L16.5m×H4.6m	about W9m×L17m×H6m
Power Voltage	AC3φ 380V, 50Hz about 650KVA	AC3φ 380V, 50Hz about 670KVA	AC3φ 380V, 50Hz about 710KVA	AC3φ 380V, 50Hz about 900KVA	AC3φ 380V, 50Hz about 1000KVA
Cooling Water	about 1000L/min.	about 1100L/min.		about 1200L/min.	about 1250L/min.





ULFARAD - 600C Winding Vacuum Film Coater

System Summary

- This Winding Vacuum Film Coater can perform plasticthin film winding under vacuum state, meanwhile continuously deposit Al film, Al & Zinc composite film on one side of plastic thin film.
- For surfac of capacitor use plastic thin film which does not need to be deposited, possible to shield through oil shelding mechanism assembled in the equipment.

Appliance

- Thin film for capacitor, Al film, Al & Zinc composite film.



Features

- Raw material type: PET,OPP
- Vapor deposition method: BN Boat resistance heating;
- Winding system: Adopt digital control method to safeguard each driven motor running simultaneously,meanwhile has high precision, good repeatability tension control system.
- Film thickness: Adopt multiple point on–line test and transmission type film thickness control system.
- Film thickness uniformity: Al film Regular Al & Zinc Composite film :
- Heavy edge type Al & Zinc composite film
- Adop static adherence mechansim: EB/bias power voltage mechanism, even very thinner film can realize high speed vapor depostion.
- Adopt high speed pattern printing mechanism, can deposit safety film.
- Adopt pre/after–treatment mechanism, able to improve raw film and film surface.
- Gas exhaust system: Available to be assembled with domestic or imported pump.

Technical Parameters

Items		Main Technical Parameters
Film Material & Thickness		OPP→3.2 ~ 9.0 μ m; PET→2.0 ~ 9.0 μ m
Film Width		500 ~ 630mm
Roll Diameter		Max. ϕ 650mm
Rolling Speed		100 ~ 1200m/min.
Rolling Direction		Forward
Tension		10 ~ 120N
Tension Control		Current control method
Film Thickness Distributiion	Al Film	1.5 Ω/□ ± 20%
	Regular Al & Zn Composite Film	8 Ω/□ ± 20%
	Heavy–edge Composite Film	3.5 Ω/□ ± 20%
Gas Applied		Ar
Cooling Water		about 450 L/min.
Compressed Air		0.6 ~ 0.7 MPa , Equal of 5HP compressor
Space Layout		约 W8.5m × L16.5m × H4.5m
Power Consumption		about 503KVA (When performing metalization, voltage consumption:about 300KVA)