

ZY-1612

Decorative Vacuum Coating Machine



Introduction

ZY-1612 decorative vacuum coating machine is a high-quality vacuum coating equipment that specially used for mobile phone coating. It adopts multi-arc ion coating technology, medium frequency magnetron sputtering technology, pulsed bias technology and other advanced technologies.

Besides, the using of high-power medium frequency sputtering targets, magnetron medium-frequency cylindrical targets and pneumatic arc round targets greatly increases the sputtering rate of the target as well as the deposition rate of the dielectric coating. Also, the uniformity and adhesion of the coating is improved accordingly.

At the same time, ZY-1612 decorative PVD coating machine is equipped with new PLC intelligent operating system independently developed by ourselves, which has the function of equipment coating process setting, data acquisition and recording. Manual/automatic integrated touch microcomputer control operation and automatic control system provide stable and reliable performance with simple and quick operation.

Application

ZY-1612 PVD coating machine can be used to make smooth coating in various nice colors such as IP-black, rose gold, IP gold, sapphire blue, champagne gold, silver, brown, colorful, gun black, zirconium, rose red and so on. The coating is dense, and uniform with strong adhesion. Therefore, it is also widely used to deposit TiN, TiC, TiCN, CrN, TiAlN and other coatings on the cell phone shell, phone frame, watchcase, golf equipment, hardware, tableware, spectacle frames and other products.

Features

1. Environment protecting and pollution-free.
2. Equipped with a large-scale vacuum chamber ($\phi 1600 \times H1200$) to ensure large loading capacity and high production efficiency, cost savings.
3. Full automatic control system with simple operation and stable performance.

4. The coating is extremely smooth, dense and shiny.
5. Excellent film uniformity and repeatability.

Specification

Chamber Size	φ1600*H1200	Effective Space	φ1250*H900
Max Dia of Workpiece*qty	φ210*16pcs	Pumping-down Time	(from atm.to 4×10^{-3} <25 mins
Voltage/Hz	380V/50Hz	Actual Power	70KW
Technology	IF+ARC (Optional)	Target Qty	5 Arc Targets/ 8 Cylindrical Targets
Ultimate pressure	5.0×10^{-4} Pa	Leak Rate	$<10^{-3}$ Pa.L/s
Standard Coatings	IP-black, rose gold, IP-gold, sapphire blue, champagne gold, silver, brown, colorful, gun black, rose red, etc.	Standard Configuration	5 Cathode Arcs/ 8 MF Cylindrical Targets
Rotating Stand Structure	Lower Structure	Vacuum Chamber Structure	Vertical Single Open
Power Supply	MF Magnetron Power Supply Pulse-bias Power Supply Special Vacuum Arc Power Supply	Vacuum System	Molecular Pump Roots pump Rotary Vane Pump
Coating Cycle	1.5-3.5 hours/furnace	Occupation Space	L3200*W3500*H2600mm
Control Method	PLC+Touch Screen Dynamic Components	Supporting Conditions	Circulating Water Pressure: $2-3\text{KG}/\text{CM}^3$
	Industry PC+PLC+Touch Screen		Flow:10T/H
	Our own special coating software		Compressed Air:4-6KG/ CM^3
Working Gas	Ar, N ₂ , O ₂ , C ₂ H ₂ , etc	Application	Decorative Coatings
Notes	Furnace, Outlook and Other Parameters Can be Customized According to the Requirement.		

