



ZY-1913 Decorative Vacuum Coating Machine

Introduction

ZY-1913 decorative vacuum coating machine is a high-quality PVD coating equipment specially used for protective coatings of decorative products. The machine integrates cathode arc ion coating technology, intermediate frequency magnetron sputtering technology, pulsed bias technology and other advanced technologies. The use of medium-frequency sputter power supply and medium-frequency magnetic cylindrical target material has greatly increased the sputtering rate of the target material and the deposition rate of the coating, at the same time it greatly improved the uniformity and adhesion of the coatings. At the same time, the newly developed automatic control system of industrial PC and professional automation software ensures the simple and efficient operation, stable and reliable performance. The mutual cooperation of software and hardware and the design of interlock, intelligent monitoring, online state memory, breakpoint protection as well as various hard protection devices make the use of the device is safe and reliable.

This machine can make smooth coatings in IP-black, rose gold, IP gold, sapphire blue, champagne gold, silver, brown, colorful, gun black, zirconium, rose red and other colors. The coating is dense and uniform with strong adhesion, and it plays a very good role on beauty and protection. Therefore, this nice machine is widely used in making coating of TiN, TiC, TiCN, CrN, TiAlN, etc. on the watchcase, watch strap, golf equipment, hardware, tableware and other products.

Features

1. Environment protecting and pollution-free.
2. Equipped with a large-scale vacuum furnace ($\phi 1900 \times H1300$) 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	φ1900*H1300	Effective Space	φ1600*H1000
Max Dia of Workpiece*qty	φ175*20pcs	Pumping-down Time	(from atm.to $4*10^{-3}$ <25 mins
Voltage/Hz	380V/50Hz	Actual Power	120KW
Technology	IF+ARC (Optional)	Target Qty	12 Cylindrical Targets /8 Arc 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, zirconium, rose red, etc.	Standard Configuration	8 Cathode Arcs/ 12 MF Cylindrical Targets
Rotating Stand Structure	Lower Structure	Vacuum Chamber Structure	Vertical Single Open
Power Supply	MF Magnetron Sputtering Power Supply; DC 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	L3600*W3200*H2600mm
Control Method	Manual+Semi-automatic+Full automatic Integration	Supporting Conditions	Circulating Water Pressure: $2-3\text{KG}/\text{CM}^3$
	Industry PC+PLC+Industrial Control Software		Flow:10T/H
	Our own special coating software		Compressed Air: $4-6\text{KG}/\text{CM}^3$
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.		

