



MAGNETRON SPUTTERING SERIES

Fast Cycle

Large Batch

Sputtering Coating

Plasma System

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System Summary

Multi-arc ion & sputtering coatings can be deposited in a wide range of colors. The range of colors can be further enhanced by introducing reactive gases into the chamber during the deposition process. The most widely used reactive gases for decorative coatings are nitrogen, oxygen, argon or acetylene. The decorative coatings are produced in a certain color range, depending on the metal-to-gas ratio in the coating and the structure of the coating. Both of these factors can be altered by changing the deposition parameters.

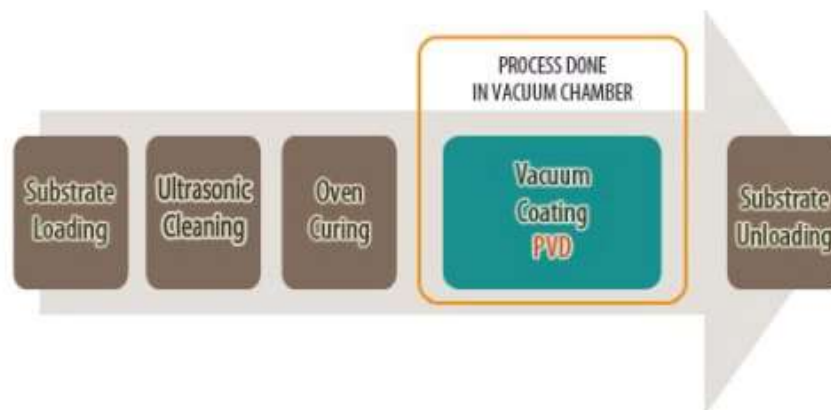
Prior to deposition, the parts are cleaned so the surface is free of dust or chemical impurities. Once the coating process has started, all the relevant process parameters are continuously monitored and controlled by an automatic computer control system.

- Substrate Material: Glass, Metal (carbon steel, stainless steel, brass),

Ceramics, Plastic, Jewelry.

- Structure Type: Vertical structure, #304 Stainless Steel
- Coating Film: Multi-functional metal film, composite film, transparent conductive film, reflectance-increasing film, electromagnetic shielding film, decorative film
- Film Color: multi colors, gun black, titanium golden color, rose golden color, stainless steel color, purple color, dark black, dark blue and other more colors
- Film type: TiN, CrN, ZrN, TiCN, TiCrN, TiNC, TiALN and DLC
- Consumables in production: Titanium, Chromium, Zirconium, Iron, alloy target; plane target, cylindrical target, twin target, opposite target.

PROCESS:



**MACHINE CONFIGURATION:**

Mode	DKMS-0809	DKMS-1012	DKMS-1312	DKMS-1615	DKMS-1918
Dimension	Φ800×H900	Φ1100×H1200	Φ1350×H1250	Φ1600×H1500	Φ1900×H1850
Coating	Multi-function metal coating, composite membrane, transparent conductive coating, increase return to shoot coating, electromagnetic shielding coating, decorative coating, etc				
Power supply	DC power supply, MF power supply, arc power supply, bias power supply				
Target	DC magnetron sputtering target, MF twin targets, planer target, cyclinder target				
Vacuum chamber structure	Vertical signal door				
Pump system	Mechanical pump, Roots pump, holding pump and diffusion pump or molecular pump				
Air system	Mass flow controller(1-4road)				
Ultimate vacuum	5×10 ⁻⁴ pa				
Pumping time	No-loading from air to 5×10 ⁻³ pa<13mins				
Workpiece motion mode	6 axis/8 axis/9 axis Public and self rotation/frequency conversion stepless speed regulation				
Control mode	Manual/Semi-automatic/Automatic, PLC touch screen				
Remark	The dimension of the vacuum chamber can be customized				

APPLICATION:

- Glassware, such as glass cup, glass lamps, glass artworks
- Plastic Phone Shell, Phone Parts
- Mosaic Tile
- Electron Industry, such as EMI film
- Watches parts, like watch case and belt
- Table wares, like metal forks and knives.
- Golf wares, like golf head, golf pole and golf balls.
- Sanitary Products/bathroom wares
- Door handles & locks
- Metal jewelry

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PRODUCTS IMAGES:



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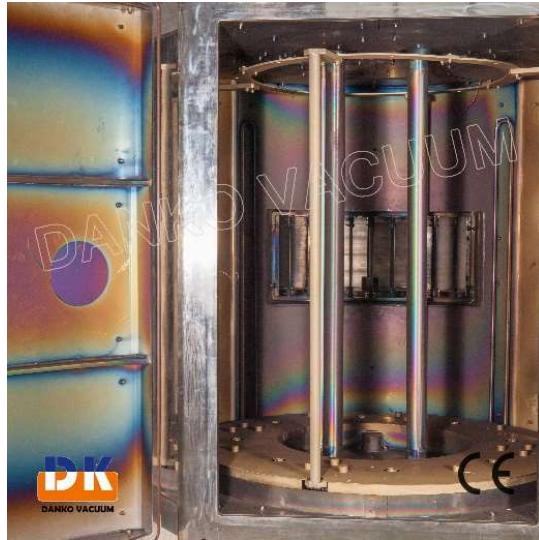
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Machine Components:





AFTER-SALES SERVICE & SUPPORTING:

Danko Vacuum Systems and our global service partners can provide onsite installation, repair service, preventative maintenance, applications and service training. We are available to provide support for your system 24/7.

Free warranty for full equipment for 12 months.

Long term providing the target, vacuum materials and accessories at reduced prices.

Providing vacuum coating machine operation and training of personnel at site.