



LARGE MULTI-ARC ION SERIES

Fast Cycle

Large Batch

Ion Coating

Plasma System

ADD: NO. 81 Jinniu West Rd, Yuyao, Ningbo City, Zhejiang Province, China

Contact: Sara Sun

Phone: +86-15867869979 Email: coating@dankovac.com Total Page:7, Page: 1

WWW.PVD-COATINGMACHINE.COM



System Summary

Arc Discharge: An electric arc or arc discharge is an electrical breakdown of a gas that produces an ongoing electrical discharge. The current through a normally nonconductive medium such as air produces a plasma; the plasma may produce visible light. An arc discharge is characterized by a lower voltage than a glow discharge, and it relies on thermionic emission of electrons from the electrodes supporting the arc.

Multi-arc ion coatings can be deposited in a wide range of colors. The rang 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.

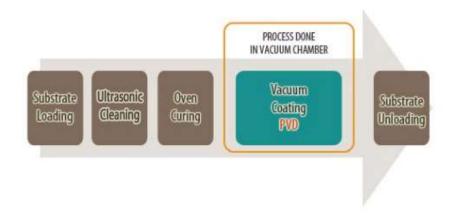
Prior to deposition, the parts are cleaned so the surface is free of dust or chemical impurities. Once the coating process has started, all the relevant process parameters are continuously monitored and controlled by an automatic computer control system.

- Substrate Material: Glass, Metal (carbon steel, stainless steel, brass), Ceramics, Plastic.
- Structure Type: Vertical structure/Horizontal 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 and other more colors
- Film type: TiN, CrN, ZrN, TiCN, TiCrN, TiNC, TiALN and DLC Consumables in production: Titanium, Chromium, Zirconium, Iron, alloy target

Total Page:7, Page: 2



PROCESS:



MACHINE CONFIGURATION:

Mode	DKMA-2020	DKMA-2338	DKMA-2043	DKMA-3133
Dimension	1000×1100	1200×1500	1400×1600	1600×1800
Coating	Multi-functional metal film, composite film, transparent conductive film, reflectance-			
	increasing film, electromagnetic shielding film, decorative film			
Power supply	DC power supply, MF power supply, arc power supply, bias power supply			
Target type	Multi-arc, MF twin targets or flat target			
Vacuum chamber	Vertical single door (double jacket layer for water cooling or sink type cooling),			
structure	Horizontal single door			
Vacuum system	Mechanical pump, Roots pump, holding pump and diffusion pump or molecular pump			
Heating system	Using some single tube red line heating tubes, thermocouple and U-type heating pipe			
	to make the temperature to be heated up to 250 degrees.			
Air system	Mass flow control system(1-4road)			
Ultimate vacuum	5×10 ⁻⁴ pa			
Pumping time	No-loading from air to 8×10 ⁻³ pa<10mins.			
Pressure-keeping	1h≤0.67pa			
rate				
Workpiece rotary	Top rotary/bottom rotary with public rotation and self-rotations frequency conversion			
	stepless controllable and adjustable			
Control mode	Manual/Semi-automatic/Automatic, PLC touch screen			
Remark	The dimension of the vacuum chamber can be customized			

APPLICATION:

- · Large size sheet, plate, pipe, tube and so on.
- · Large stainless steel plates and furniture.

ADD: NO. 81 Jinniu West Rd, Yuyao, Ningbo City, Zhejiang Province, China

Contact: Sara Sun

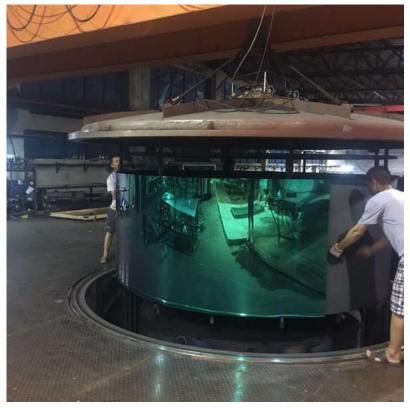
Phone: +86-15867869979 Email: coating@dankovac.com Total Page:7, Page: 3

WWW.PVD-COATINGMACHINE.COM



PRODUCTS IMAGES:



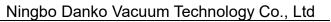


ADD: NO. 81 Jinniu West Rd, Yuyao, Ningbo City, Zhejiang Province, China

Contact: Sara Sun

Email: coating@dankovac.com Total Page:7, Page: 4

Phone: +86-15867869979 En WWW.PVD-COATINGMACHINE.COM









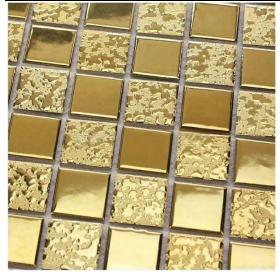
ADD: NO. 81 Jinniu West Rd, Yuyao, Ningbo City, Zhejiang Province, China

Contact: Sara Sun

Phone: +86-15867869979 En WWW.PVD-COATINGMACHINE.COM Email: coating@dankovac.com Total Page:7, Page: 5



Ningbo Danko Vacuum Technology Co., Ltd





Machine Components:









ADD: NO. 81 Jinniu West Rd, Yuyao, Ningbo City, Zhejiang Province, China

Contact: Sara Sun

Email: coating@dankovac.com Total Page:7, Page: 6

Phone: +86-15867869979 En WWW.PVD-COATINGMACHINE.COM



Ningbo Danko Vacuum Technology Co., Ltd





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.

ADD: NO. 81 Jinniu West Rd, Yuyao, Ningbo City, Zhejiang Province, China

Contact: Sara Sun

Phone: +86-15867869979 Email: coating@dankovac.com Total Page:7, Page: 7

WWW.PVD-COATINGMACHINE.COM