

# Large-scale PVD Coating System

## Description

Ionization source & Bias power supply

No. of targets:16~26;

Power of BIAS: 30kW~45kW.

The proposed coating system is the PVD COATING SYSTEM TYPE STN-20D30. The STN-20D30 has an enlarged loading capacity and has been specially designed for large volume products decorative coating. For large volume products the STN-20D30 offers an unsurpassed productivity. This equipment is especially developed for those applications requiring extreme large coating space, high loading capacity, low temperatures (<300 °C) and short cycle times. This makes this system especially well suited for decorative parts. The vacuum chamber unit has a cylinder design with one door opened on the top of the process chamber and 26 (twenty-six) cathode Arc Ion Sources. Inner size of the chamber --- Diameter: 1500~1800mm? Height: 2000mm~3500mm

Vacuum pumping system --- Oil diffusion pump + Root's pump + Rotary pump

Controlling system --- PLC & Touch Screen OR PLC & PC

Specification Model STN-20FD30  
 Process Chamber I: 1800mm\*H3500mm  
 Pumping System Backing Pump Rotary vane pump with 252m<sup>3</sup>/h (4 set)  
 Roots Pump Roots pump with 1080m<sup>3</sup>/h (2 set)  
 Diffusion Pump Oil diffusion pump with 81000m<sup>3</sup>/h (2 set)  
 Hold Pump Rotary vane pump with 108m<sup>3</sup>/h (2 set)  
 System Control PLC touch screen & PC control  
 Cathodes 26 unit  
 Cathodes Power Max 160A  
 Bias Power Supply 180KW, 0-1000V  
 Process Gas System 500sccm/2 unit  
 1000sccm/2 unit  
 Heating System 0-24KW, PID control  
 Power 380V three phase four line  
 Turntable Driving System 6\*4 unit, rotation, revolution  
 Driving Control 0-18rpm (variable)  
 Cooling Water System PL-08 (optional)  
 Oven 8KW, 800\*800\*1000mm (optional)