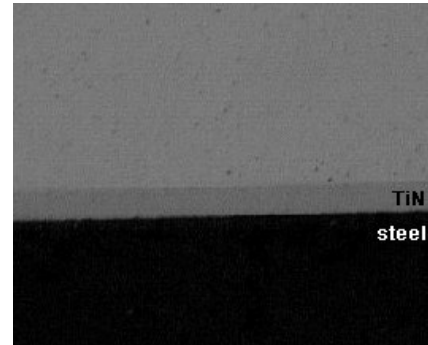


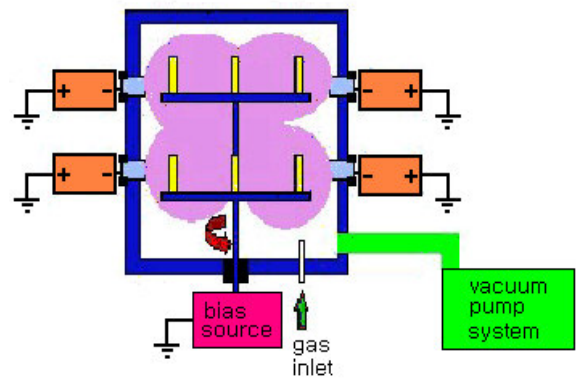
ATS-PVD Series Vacuum Arc System with 8 Arc Guns



SEM analysis of TiN layer (4 μ m)



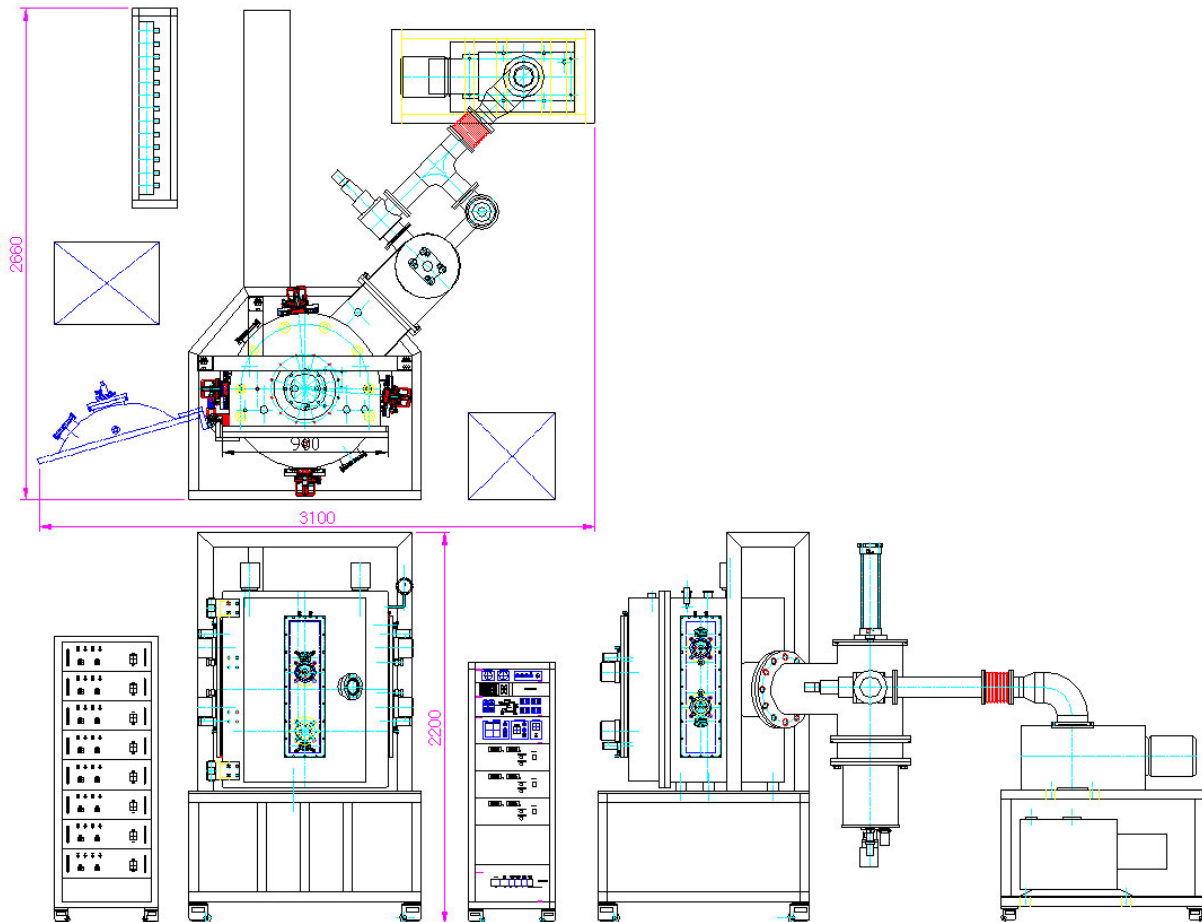
Schematic diagram of vacuum arc system



Special Features

- ◆ Vacuum arc system for mass production
(base pressure: 1×10^{-6} Torr)
- ◆ Pumping system equipped with mechanical, booster and oil diffusion pumps
- ◆ Automatically or manually controlled in substrate revolution and rotation
- ◆ Batch type of substrate loading
- ◆ Applications
 - Hard materials coating
(eg. CrN, TiN, TiAlN)
 - Anti-corrosive coating
(eg. ZrN)
- ◆ Average throughput
Up to 300,000 pcs per year
- ◆ Dimension
1,000L X 1,000H X 1,300W (mm³)
- ◆ Others
 - Power : DC 200A/100V 8ea for arc
DC 35A/1000V 1ea for heater
DC 20A/1000V 1ea for bias
 - Heater : molybdenum
(heating rate: 30 $^{\circ}$ C/min,
max. temp.: 600 $^{\circ}$ C, temp.
deviation : negligible)
 - Gas : Ar / N₂
 - Pump : rotary(1,500l/min) & booster
(1,500l/min)
diffusion(5,000l/s)

◇ Layout



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