

Antibacterial Coatings



Faucets



Water Tank



Tableware



Door handle

Applications

- ◆ Kitchen implements like SS sinks, SS houseware
- ◆ SS flatwares
- ◆ Sanitaryware: faucets, bathroom fittings
- ◆ Door handles
- ◆ Ceramic tiles
- ◆ Glassware for food storage
- ◆ Medical instruments

ROYAL TECHNOLOGY

CARES ABOUT YOUR HEALTH

Advantages

- ◆ Green coating technology
- ◆ Low production cost
- ◆ High antibacterial effect and long lasting
- ◆ Scratch resistance
- ◆ Corrosion & wear resistance



The demand for antibacterial coatings on frequently touched surfaces has long existed. With the rising public health and domestic hygiene awareness, decorative coatings on SS and ceramic products, such as taps, door handles, hand rails, tiles, faucets, bathroom fittings with antibacterial properties may attract more attention from consumers than ever.

“After one year of research and development, the test results eventually turned out excellent,” said Zhou Xin, the marketing director, *“adding only several minutes based on traditional PVD decorative coatings, the products will be able to kill 99.99% of E. coli and S. aureus after 24 hours without affecting other important properties.”*

We are ready to share this advanced technique with our customers, anyone is interested in providing the antibacterial finishing as an high added-value on your products, please contact us for a FREE consult.

Analysis & Test Result on Stainless Steel

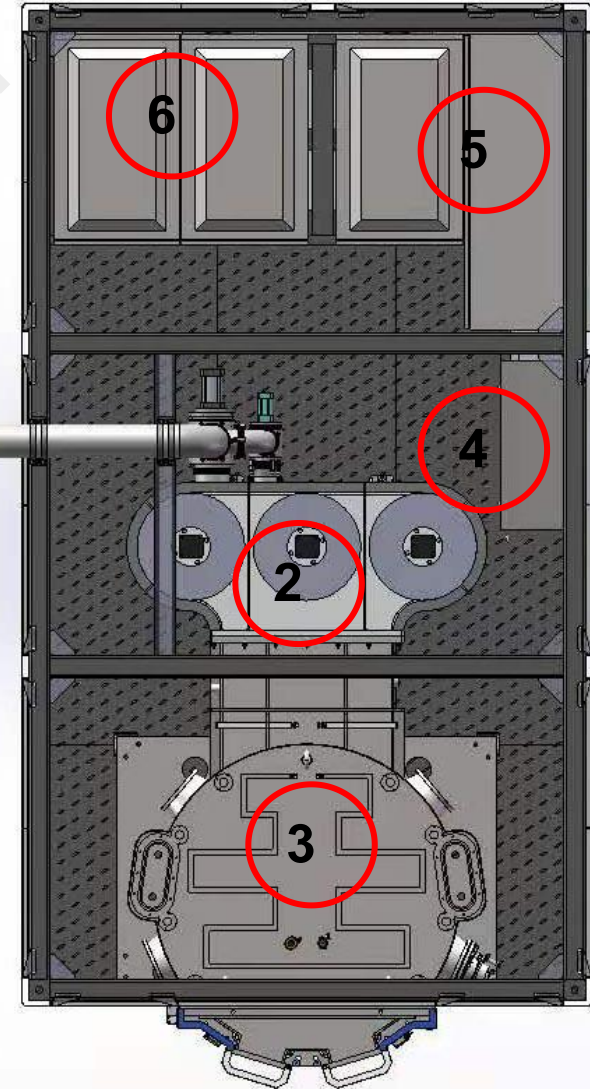
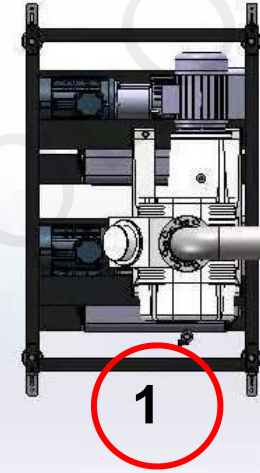
(By Guangdong Detection Center of Microbiology) Dec. 2020

The test microorganism	The average plate count of blank control samples recovered over 24h(cfu/pieces)	The average plate count of test samples recovered over 24h(cfu/pieces)	Antibacterial rate (%)
Escherichia Coli (AS1.90)	9.2×10^6	<20	>99.99
Staphylococcus aureus (AS1.89)	8.8×10^5	<20	>99.99

The above testing report is only for reference, actual value might be various when substrate material, testing methodology changes. Complied with standard of

Key Configurations

-RT1400-AntiBac Machine



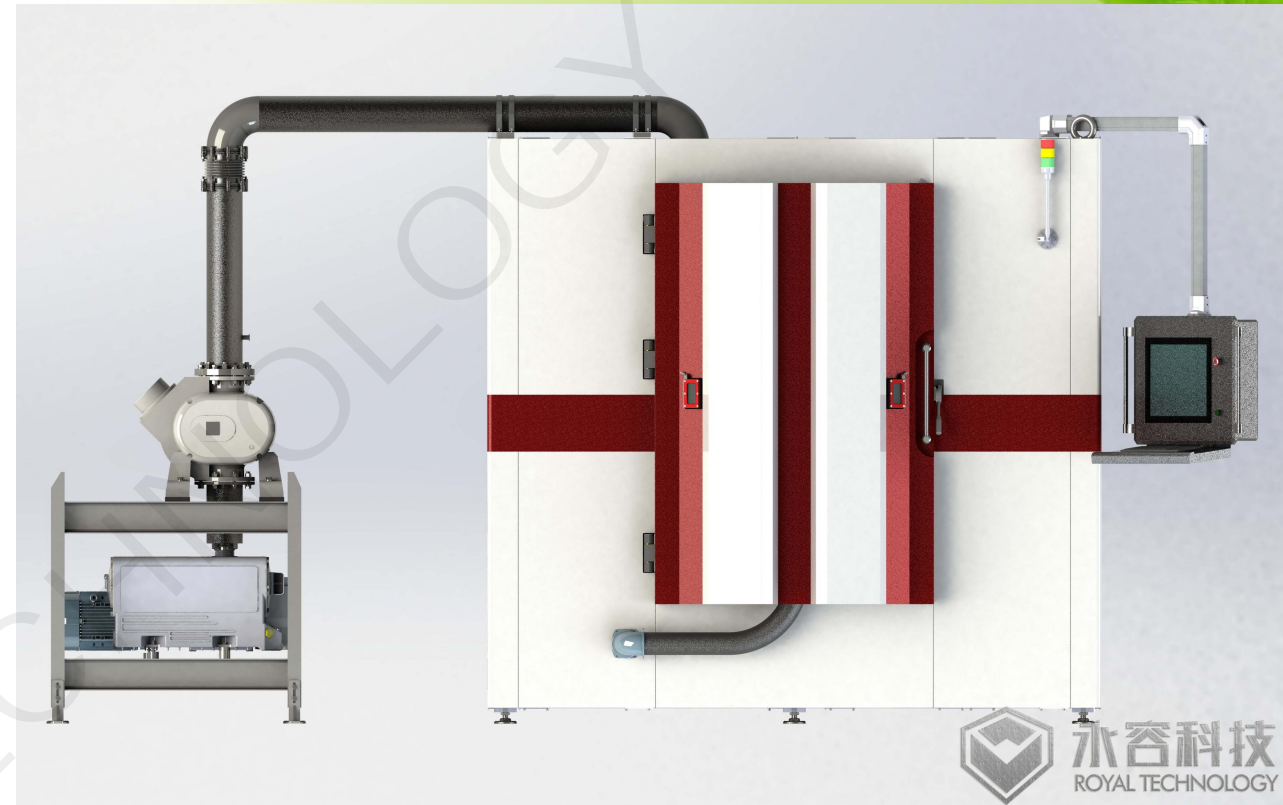
1#	2#	3#	4#	5#	6#	7#
Fore vacuum pumps	High vacuum pumps	Vacuum chamber and deposition cathodes	Air & cold water cabinet	Power supplies cabinet	Central control cabinet	IPC & operation keyboard

*****The machine final configuration is determined by customer requirements.*****

► Technical Advantages

- ◆ Plug-in integrated design system
- ◆ IPC control & operation module
- ◆ Available for remote monitoring and diagnosis
- ◆ Flexible, ready for upgrading
- ◆ Multiple cathodes for fast deposition coatings

Technical Specifications



Effective Coating Size(mm)	Max. Loading (kgs)	Deposition Sources	Pulsed Bias Power (KW)	Sputtering Power (KW)	Heater Power (KW)	Power Consumption (KW)	Installation Space(L*W*H) mm
6*φ370*H1200 8*φ300*H1200 12*φ210*H1200	500	Arc and sputtering cathodes	Max. 36	Max. 36	Max. 18	Max. 90 Average: 50	6700*5800*3500