

An ISO 9001-2015 Certified (QMS) | AS9100D (Aviation & Defence) Certified ESD Compliant Environment

ABOUT PARYLENE ASIA TECHNOLOGIES Parylene Asia Technologies (PAT) is a specialised provider of a unique conformal surface coating based on a family of paraxylylene derivatives (dimers), which undergo a vapourisation and polymerisation process to form what is commonly known in industry as 'Nano coating'. Nano coating is a generic name for a proven class of polymer-based conformal coating which has been widely deployed in Europe and North American in a variety of high-value sectors such as the electronics, automotive, aerospace, medical, museum, association and industrial industries. ELLEG DANGE: DAWN TECH

PRODUCT **FEATURES**

Parylene Coating Introduction

Parylene Coating is the Modern Technology in Conformal Coating, utilized to uniformly protect any component configuration on such diverse substrates as metal, glass, paper, resin, plastic, ceramic, ferrite & silicon. Widely deployed in Europe and North America in a variety of high-value sectors.

Parylene coating



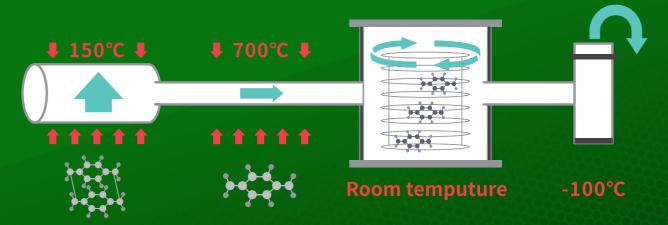
Uniform thickness film regardless of its complexity Liquid coating



Uneven thickness film unable to form with the contour of the shape

Parylene Coating Process

Through vapor deposition in a vacuum chamber, parylene coating shows excellent characteristics and solves the defects of traditional coating of conformal process.



- Raw material dimer is vapourised under controlled temperature
- Temperature setting depends on amount of dimer used and coating thickness
- Vaporization stage 📄 Pyrolysis stage
 - Gas dimer undergoes pyrolysis under high heat to break down into reactive monomers which then flows into the vacuum chamber

Deposition stage

- Reactive monomers flows into chamber under high vacuum state and cools to form polymer layer
- Necessary for products to be in vacuum and rotated for uniform coating

Cold Trap stage

-The excess monomer is cooled through the cold trap and dispose Environmentally friendly

International Certification



INTRAMUSCULAR IMPLANTATION TEST



Singapore ISO 9001



Malaysia Aerospace ISO 9100



Parylene Coating Machine SGS CE-Mark Cert

Green Features

Environmental and non-toxic, the process is simple without air pollution and water-wasting problem in the process. Technicians can rely on the setting to control the uniformity of the product film thickness, coating efficiency and adhesion.



Anti-Mildew **Antibacterial**



Waterproof Moisture-proof



Antistatic



Insulation Non-Conductive



Preservative



Strong Malleability



GREEN **HIGHLIGHTS**

Machine Specifications

NOAMTECH 12

Parylene Coating Machine	DT-750-900	
Chamber Size	Dia 750mm X H960mm	
Ultra Chiller	DT-U100	
Ulvac Vacuum Pump	VDN-902	
Auto Open/Close Chamber System and Safety Sensor	Т300	
Dimer Boat (L405xW80xH65)mm	DB-L1000	
Quartz Tube (L1290xT3xDia90)mm	QT-1190	
Jig Holder (4 pole Dial2 x L870, Base Dia650 x H8)mm	JH90	
Jig Tray - 10Pcs (Dia 655mm)	JT-650-10	
Jig Spacer - 40Pcs (H 30mm)	JS-30-40	

- -- Coating Thickness: Low as 1 Micron to 50 Micron thickness.
- -- Number of Boards per Cycle: It will vary based on board size placing alignment, number of jigs inline with chamber size.

-- Coating Cycle Duration: It will vary based on number of boards & thickness, Dimer type and Dimer Qty.



Parylene Applications

- -- Medical, Silicon: US FDA cerification, biocompatibility, inhibit the growth of bacteria.
- -- **Military, Aerospace:** Extreme tolerance in harsh environment, blocking dust, sand, moisture chemical and biological agents.
- --Electronics, Communications, Automotives, Semiconductors: Acid and alkali resistance waterproof, moisture-proof, insulation protection, thinner coating can help components to dissipate heat.
- -- **Museum:** For old books, silks and documents, protection can be formed on the surface of the fiber for long-trem preservation.

















FUTURE APPLICATION

Looking forward to expanding the market for electric vehicles and 5G products in response to trends in the future and continuing to work with customers to create high-value, high-efficiency, economical and environmental products.

Product	Parylene Coating Machine			
Green features	Simple process, Environmental Friendly			网络
Origin	India			国政義
Website	www.parylene.asia	Email	enquiry@parylene.asia	
Company	Parylene Asia Technologies Pvt Ltd			
Customer Service	080 - 22331306 / +91 8792418497			
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