

TURBO PUMPED DESK CARBON COATER- DCT



The Turbo Pumped Desk Carbon Coater- DCT is a turbo-pumped carbon coater designed for various applications, including FE-SEM, EDS/WDS, TEM, EBSD, and thin film applications. This high vacuum carbon coater excels at producing high-quality, uniform carbon films with fine grain sizes. These films are especially well-suited for specimens that demand high-resolution and top-quality characterization.

APPLICATIONS

- **Field Emission Scanning Electron Microscopy (FE-SEM)** – Produces ultra-thin, conductive carbon films for high-resolution imaging.
- **Energy Dispersive and Wavelength Dispersive Spectroscopy (EDS/WDS)** – Provides contamination-free carbon coatings ideal for accurate elemental analysis.
- **Transmission Electron Microscopy (TEM)** – Deposits fine-grain, uniform carbon layers critical for specimen support films.
- **Electron Backscatter Diffraction (EBSD)** – Ensures stable, conductive coatings that improve diffraction pattern quality.
- **Thin Film Research** – Enables high-quality carbon thin films for nanotechnology and materials science applications.
- **Porous and Delicate Samples** – Utilizes planetary rotation stages to achieve uniform coating without damaging fragile structures.

- **Quality Control & Industrial R&D** – Supports reliable surface preparation for product testing and characterization.
- **Academic and Training Laboratories** – Provides repeatable, user-friendly operation for teaching advanced microscopy techniques.

FEATURES

- Quartz crystal thickness monitor with a precision of 1 nanometer and a resolution of 1 Ångström
- Offers both pulsed and flash carbon fiber coating modes
- Intuitive touchscreen interface for easy control and real-time monitoring of the coating process, with rapid data input capability
- User-friendly software that can be updated via the network
- Capable of recording and plotting coating parameter graphs
- Equipped with easily interchangeable specimen stages, with a rotation stage included as standard
- Backed by a two-year warranty for peace of mind
- CE conformity ensures compliance with safety standards
- Worldwide coverage for public and product liability insurance, providing protection in case of property damage or personal injury caused by Vac Coat systems.

Touch Screen Control

The Desk Carbon Coater features a user-friendly 7-inch color touchscreen interface with complete automatic control and data input capabilities, making it accessible even for inexperienced users. Through this touchscreen, users can effortlessly operate the system and view vacuum levels, current readings, and deposition information in either digital data or graphical

curve formats. Additionally, the system retains information on the last 300 coatings, which can be readily accessed in the history page for reference.

Desk Sputter Coater Desk Sputter Coater

Sample Holder of Vacuum Carbon Coater

The turbo-pumped carbon coater offers versatile sample stage configurations, allowing customization based on user requirements. These sample stages are designed to be rotatable with adjustable height and are easily interchangeable. The rotary planetary sample stage, in particular, is a recommended option for achieving uniform coating, especially for porous specimens.

Desk Sputter Coater

Desk Sputter Coater

TECHNICAL SPECIFICATIONS

- High vacuum turbo pump with a capacity of 90 l/s (Leybold)
- Two-stage rotary vane vacuum pump used as backing pumps
- Full range vacuum gauge (Leybold)
- Vacuum chamber dimensions: 170 mm OD x 140 mm
- 0-25 A switching pulsed DC power supply
- Ultimate Vacuum: Less than 7×10^{-7} torr
- Dimensions: 450 mm (height) x 500 mm (width) x 370 mm (depth)

- Power requirements: 220V-240V, 50/60Hz, 10A
- Intuitive touch screen with a colored display unit
- Sample holder with planetary rotation capability
- Plasma Cleaning functionality
- Electronic shutter for precise control
- Coating process automatically controlled independently of pressure
- Precision metering valve for fine vacuum pressure control
- Real-time plots displaying coating parameters
- Convenient data transfer of coating data plots via USB port to PC
- Shipping Weight: 46 kilograms

Options and Accessories:

- Head and power supply for carbon rod
- Quartz crystal sensor
- Planetary sample rotation
- Spare vacuum glass chamber
- Carbon fiber
- Sealing gaskets



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