



RotaP



The New Generation of Rotary Pumped EM Coaters





Rotary Pumped Coating System

The RotaQ is an automated and versatile rotary pumped coater offering unparalleled ease of use. Recommended for sample preparation for the examination of specimens using Electron Microscopy (EM).

Available in 3 configurations based on your application needs

RotaQ S

Sputter coater for noble metals. Au target offered as standard. Au/Pd, Ag, Pt, Pt/Pd, Pd available as options.

RotaQ €

Evaporation coater for carbon/ metal evaporation. Carbon fibre source offered as standard.

RotaQ ES

Combined coater offering both sputter coating and carbon and metal evaporation. Au target and carbon fibre source available as standard. Au/Pd, Ag, Pt, Pt/Pd, Pd available as options.





Features

- Recommended for low-medium magnification
- Suitable for use with Tungsten/LaB₆ SEM and Benchtop SEM
- Rapid cycle time for maximum sample throughput
- Tilt stage design giving uniform coating of complex 3D structures
- Film Thickness Monitor
 (FTM) to control deposition of coating
- Intuitive and responsive touchscreen colour panel design
- Multi-colour LED visual status indicator offering process updates
- Pre-set recipes for standard protocols resulting in sample reproducibility
- Customizable recipes for tailored applications
- Easy and quick set-up of profiles
- Multiple stage options based on application needs





Standard Stage

Quorum provides a comprehensive selection of sample stages designed to meet a range of application needs. The adaptable stage configurations enable precise control, making them ideal for coating even the most delicate specimens with accuracy and care.



Tilt Stage (Extended)Configuration: Available on the RotaQ S and ES



Tilt StageConfiguration: Available on the RotaQ E and ES

Optional Stage



Rota Cota Stage (Extended)Configuration: Available on the RotaQ and ES



Rota Cota Stage Configuration: Available on the RotaQ S and ES

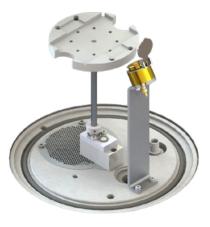
RotaQ



4" Wafer Stage (Extended)Configuration: Available on the RotaQ S and ES



4" Wafer StageConfiguration: Available on the RotaQ E and ES



Slide stage (Extended)Configuration: Available on the RotaQ S and ES



Slide stageConfiguration: Available on the RotaQ E and ES



8 Place stub stage (Extended)Configuration: Available on the RotaQ S and ES



8 Place stub stageConfiguration: Available on the RotaQ E and ES



EM Applications

RotaQ S

Biological SEM Applications



€3100 Critical Point Dryer



Sample Mounting



Sputter Head



Roto S Coating



SEM Imaging

RotaQ €

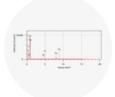
Material Applications



Carbon Fibre Head



Roto♀ € Carbon Coating



Elemental Analysis



Coating Inserts







Carbon Rod



Carbon Fibre



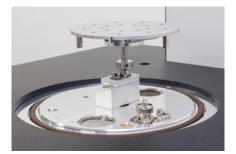
Glow Discharge

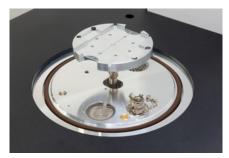


Metal Evaporation

Stage Options







Slide Stage

Rota Cota 4"Wafer Stage

Specifications	
Unit Weight	34 Kg (ES model)
Packed weight	48 Kg (ES model)
Instrument size	440 mm (W) x 556 mm (H) x 551 mm (D)
Instrument size with chamber open	440 mm (W) x 860 mm (H) x 551 mm (D)
Specimen stage	Short stage 65 mm (H) from chamber base, 50 mm Ø diameter
Specimen stage	Tall stage: 145 mm (H) from chamber base, 50 mm Ø diameter
Chamber size	150 mm Ø diameter, 220 mm (H)
Ultimate vacuum	6x10 ⁻³ mbar
Operational vacuum	1x10 ⁻¹ mbar
Vacuum gauge range	1013 – 1x10 ⁻⁴ mbar
User interface	Touch screen colour display
USB connectors	Back-up process log files and recipes easily achievable using a USB Sputter Coater
Sputter Coater (RotaQ S and RotaQ ES)	
Sputter target	Target Disc style, 57 mm Ø diameter x 0.1 mm (thickness).
	Au target supplied as standard.
Specimen Stage	50 mm Ø diameter rotating stage
Deposition Current	10-150 mA
Deposition Rate	0.1-20 nm/min (e.g. for Au)
Sputter Timer	0-60 min
Evaporation Coater (RotaQ E and RotaQ ES)	
Evaporation current (rod)	5-75 A (dependent on process)
Outgas current	1-40 A
Carbon source	3.2 mm rods or carbon fibre
Power supply	90 V – 240 V 50/60 Hz, 1350 W including pump

Vacuum specification verified using a Pfeiffer Duo 6 Rotary Pump



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