

THE NEW Q PLUS SERIES

At Quorum Technologies, we understand that exacting sample preparation is the only way to provide you with clear imaging results. The NEW Q Plus series has been developed to provide optimal coating in a format that's easy to use and comes in a versatile range of products to meet your needs and budget. New features include; an intuitive and fast capacitive touch-screen, status LED illumination and an audio notification when the process is completed, USB port for upgrades and downloads of log files and, with the **NEW Q150V Plus**, the Q series offers users an ultimate vacuum of 1 x 10 6 mbar.

The Q Plus Series is suitable for both sputter coating metals and evaporating carbon coating in SEM, FE-SEM and TEM applications. You can be assured, whatever your sample - the market leading Q Plus Series has it covered.





Q150 Plus Series



Q300 Plus Series

The Q Plus Series has it covered: quorumtech.com

Who we are

Quorum Technologies Ltd is the market leader in coating and cryogenic sample preparation for electron microscopy. With a purpose-built facility in the UK, our expert team is committed to delivering quality products and after sales care to our end users globally.

While Quorum Technologies was founded in 2001 the history of our brand goes back even further, to the pioneering work of Polaron Equipment Ltd and Emitech, who developed the first commercial EM sample preparation equipment in the 1970's.

Our products enable researchers to make significant breakthroughs in their analysis – time and time again.



The Q Plus Series

The Q Plus Series is the latest version of Quorum's internationally acclaimed, market-leading range of coaters, which offer sputter and evaporation coating combined in one easy to use platform.

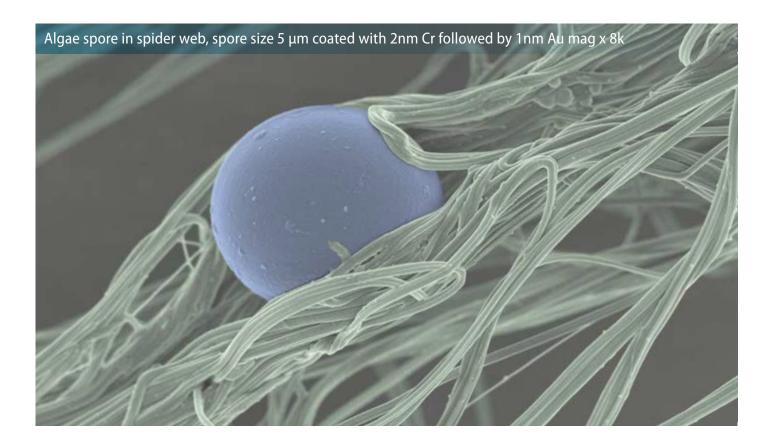
They are increasingly used in high-resolution microscopy, where ultra-fine coating is a must.

The Q Plus Series provides users with a versatile, effective and affordable choice of rotary or turbomolecular pumped coaters.

Our sputter coaters are suitable for oxidising and nonoxidising metals alike, while carbon evaporators use easy-change carbon rod and carbon cord inserts. To offer improved ultra-fine sputtering and carbon coating Quorum have introduced the **NEW Q150V Plus**, which offers an ultimate vacuum of 1x10⁻⁶ mbar for superior results. The lower background pressure removes oxygen, nitrogen and water vapour from the chamber, avoiding chemical reactions during the sputter process, which could otherwise lead to impurities or defects in the coatings.

Similarly, lower scattering allows for high purity, amorphous carbon films of high density. The Q150V Plus offers users the capability to produce finer grain size and thinner coating for ultra-high-resolution applications. (above x 200k magnification)

The Q300 Plus offers users a large-chamber option for specimens up to 200mm (8in).





Q Plus Series benefits

- Super fine carbon coating for higher quality imaging using carbon rods and carbon cord
- Wide range of targets available: Au, Au/Pd, Cr, Pt, Pt/Pd, Pd, Cu, Ir, W, ITO, AI (other targets offered)
- New process status indicator with multi-colour LED sequence
- New software allows users to sort recipes per user according to recent use
- New processor with 16GB of memory allows for more than 1000 recipes to be stored
- New intuitive operator software with responsive capacitive screen
- Interchangeable heads allows the user to configure the system as a sputter coater, evaporator or glow discharge system - all in one space saving format
- Large area of deposition with Q300 Plus up to 200mm diameter



Easily configurable head and stage options for different samples



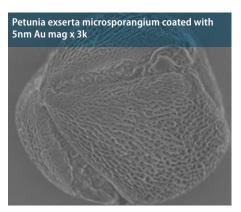
Status indication through multi-colour

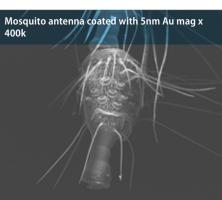


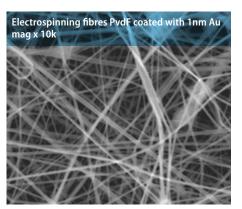
New touch and swipe user interface

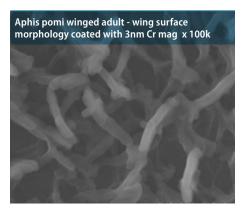
The best coverage

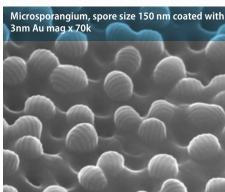
Versatile enough to suit a wide range of applications, the Q Plus Series provides the best coating solution for your sample preparation needs. From rotary pumped systems for benchtop SEM specimens to turbomolecular pumping for high-resolution FE-SEM and TEM samples, our products deliver superior quality at an affordable cost of ownership.

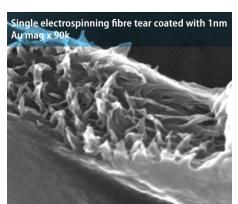














The Q Plus Series

Features	Q150R PLUS	Q150T PLUS	Q150V PLUS	Q300T T PLUS	Q300T D PLUS
New touch and swipe capacitive screen	V	V	~	v	~
USB port for upgrades and download of log files	~	V	~	v	V
Multiple-user profiles can be set up on one machine	~	~	~	v	V
New software sorts recipes per user according to recent use	~	~	~	v	V
16GB of flash memory can store more than 1000 recipes	~	~	~	v	V
Status indication through visual multi-colour LED	~	~	~	v	~
Audio notification when process completed	~	~	~	v	~
Create recipe sequences with simple copy, drag and drop operation	~	~	~	v	~
Interchangeable stage options	~	~	~	v	<u> </u>
Interchangeable plug-in heads	~	~	v		
Capable of achieving vacuum 2 x 10 ⁻² mbar	~	~	~	v	~
Capable of achieving vacuum 5 x 10 ⁻⁵ mbar	<u>.</u>	~	~	~	~
Capable of achieving vacuum 1 x 10 ⁻⁶ mbar			~		
FTM control on carbon deposition as an option		<u> </u>	~		
Three sputter heads for large area deposition of different materials				~	
Single head selection for small samples				v	,
Multi-layer deposition of two materials					~
Benefits	Q150R PLUS	Q150T PLUS	Q150V PLUS	Q300T T PLUS	Q300T D PLUS
Single system for sputter and carbon coating	V	~	~		
Easy selection for frequently used recipes	~	V	<u> </u>	y	~
Easy configuration of head and stage options for different samples	~	,	_		
Easy to see multi-colour status indicator light from a distance	~	V	<u> </u>	y	~
Ultra-fine grain size coating capability		v	<u> </u>	~	<u> </u>
Ultra-fine carbon coating for high-resolution applications using carbon rods					
			~		
High purity depositions			~		
Large area of depositions - up to 200mm diameter				V	
Recommended Applications	Q150R PLUS	Q150T PLUS	Q150V PLUS	Q300T T PLUS	Q300T D PLUS
Low and medium magnifications	Y				
SE Signal boost (1nm or less)	Y				
Table-top SEM coating	Y				
Elemental analysis	Y				
Copper metallisation of layers	Y				
High-resolution magnification SEM		V			
Protective platinum layers for FIB		Y			
R&D of corrosion-, friction-, and wear- protective layers		V	,		
Protective layers on medical devices		V	,		
Carbon coating of replicas		V	,		
BSE imaging		V	~		:
EDX, WDS, EBSD analysis		V	~		
Carbon coating of TEM grids			~		:
Ultra-high resolution magnification SEM			~		
Nano-technology e.g. Zeolites, polymer nanobrushes			→	:	±
•			<u> </u>		
Wafer inspection			·	v	
Wafer inspection Multiple sample prep for SEM Materials applications - ideal for multi-layer coatings			, v	,	



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