

All FE-SEM coating systems supplied by TAAB are manufactured to exacting standards with integral ventilation to EMC requirements. A balanced level of automation has been included whilst maintaining user flexibility. Our policy of continuous improvement means we must reserve the right to revise specifications.

Q150R Modular Coating Systems

The Q150R is a versatile and compact, bench mounted rotary pumped coating system, designed specifically for SEM specimen preparation and other coating applications. The 165mm/6½" Ø chamber can accommodate a wide range of specimens which require conductive coatings. The innovative design is available in the following configurations:

Q150R E Rotary pumped **carbon coater** using carbon fibre or carbon cord to coat specimens. Carbon rod system also available.

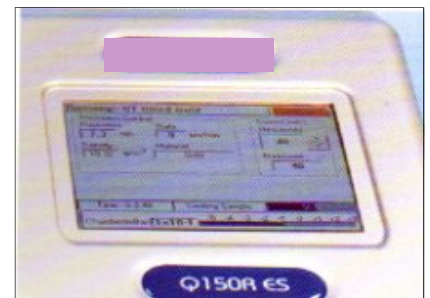
Q150R S Rotary pumped, cool magnetron **sputter coater** suitable for coating specimens with non-oxidising (noble) metals such as gold, silver, platinum and palladium.

Q150R ES **Dual purpose** compact system supplied with **sputtering & carbon fibre** evaporation inserts. S and ES versions have a **Glow Discharge** option.

Speed and simplicity

- Easy change coating inserts enable rapid conversion between sputtering and carbon evaporation or glow discharge.
- Intelligent system logic automatically recognises which coating insert is in use and data is entered via a fully automatic touch-screen control.
- A memory allows retention and pre-setting of protocols for reliable use in multi-user environments.
- Quick change stage modules to accommodate a wide range of size and specimen types

[Please ask for a quotation for your application](#)



Polaron 'Mini' Sputter Coater SC7620

A compact manual bench-top coater, using a basic magnetron sputter head, simple to replace disc target, easy to operate and suitable for routine operations. The head can be tilted back on a hinge for chamber access. 1.2kV power supply, analogue vacuum gauge and milli-ammeter, 180 sec timer with 15 sec resolution, height adjustable specimen stage, 100mm Ø x 135mm H Pyrex cylinder with 'O' ring seals, gold/palladium target, 1 metre of vacuum tubing with fittings.

To maintain simplicity options are restricted. The head voltage is fixed at 800V DC, the current is variable by adjustment of the vacuum level using an argon leak valve. Venting is to argon. The standard height adjustable specimen stage may be replaced by a water cooled option.

Dimensions; 340 W x 130 H x 250mm D excluding chamber *Weight;* 15Kg *Vacuum pump;* No. 2.

S521 Polaron 'Mini sputter coater SC7620 (Five year warranty)

Targets:

Gold, gold/palladium, platinum, nickel, silver, palladium all 57mm Ø x 0.075mm thick.



Leica Products for SEM (& TEM) Preparation

Leica EM CED030 Carbon Thread Evaporator



A **compact bench-top** single and multiple carbon thread evaporator producing conductive carbon films on specimens for X-ray microanalysis (EDX, WDX) and carbon reinforcement films on collodion or formvar coated specimen support grids for TEM. Uses flash or pulsation evaporation under low vacuum conditions. Carbon thread produces cohesive films that will cover very fissured surfaces.

The carbon thread is thoroughly degassed under a shutter protecting the specimen from damaging splatters. Precise parameter selection plus the use of a crystal quartz film thickness monitor allows the film thickness to be exactly determined.

C506 CED030 carbon thread evaporator

Leica EM ACE200 Sputter Coater



The Leica EM ACE200 is a high quality desk-top coater designed to produce homogeneous coatings of conductive metal or carbon as required for electron microscopy.

This fully automated instrument can be configured either as a **sputter coater** or a **carbon thread evaporation coater**. Or, if preferred, the Leica EM ACE200 can combine both methods with interchangeable heads on the one instrument.

Additional options include:

- › Quartz crystal measurement – for reproducible layers
- › Planetary rotation – for even distribution of coating material on fissured samples
- › Glow discharge – to make TEM grids hydrophilic
- › Exchangeable shielding – for easy cleaning

Please ask for details and quotation

Leica EM ACE600 Sputter Coater



The Leica EM ACE600 is a versatile high vacuum table-top film deposition system, designed to produce very thin, fine-grained and conductive metal and carbon coatings for the highest resolution analysis, as required for FE-SEM and TEM applications.

This fully automated coater includes an integrated oil free pumping system, quartz crystal film thickness measurement and three axis motorized stage (rotation, optional tilt and height).

The Leica EM ACE600 can be **configured for the following methods**:

- › Sputtering
- › Carbon thread evaporation
- › Carbon rod evaporation (with an option for thermal resistance evaporation)
- › e-beam evaporation
- › Glow discharge
- › Leica EM VCT adaptation for cryo-coating, freeze-fracture, double-replica, freeze-drying and environmental transfer with the VCT Shuttle.

Please ask for details and quotation