

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.

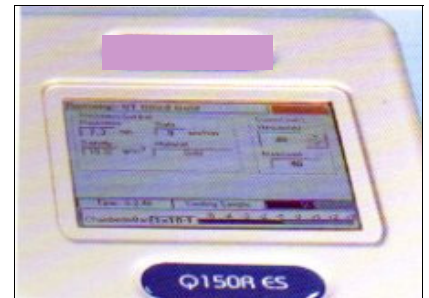
**Q150R S** Rotary pumped, cool magnetron **sputter coater** suitable for coating specimens with non-oxidising (noble) metals such as gold, silver, platinum and palladium.

**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 CED030 Carbon Coater

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 SCD005 Cool Sputter Coater

A **table-top** sputter coater that produces very fine-grained, quality conductive films using precious metals: gold, gold/palladium, iridium, silver and platinum. Even large samples such as wafers and compact discs for industrial processes can be coated.

This unit also offers single and multiple **carbon thread evaporation** for the production of conductive carbon films for X-ray microanalysis (EDX, WDX) and carbon reinforcement films on specimen support grids. The unit allows fast processing cycles resulting in increased time savings and efficiency. **Adjustable argon pressure** and sputter current during processing provides better control of the coating rate for optimum results. Various vacuum chamber sizes are easily exchangeable and accommodate different sample preparation processes allowing greater flexibility in sputtering larger samples. Stepless height adjustable **rotating specimen table** for correct film deposition and integrated shutter.

Please ask for a quotation for either of these instruments



## Leica SCD050 Water Cooled Sputter Coater

The SCD 050 has all the features of the above plus: An integrated **water-cooled sample stage** ensuring consistent sample temperature at high sputtering power a **built-in etching device** for surface cleaning that improves adhesion of the subsequent coating and makes carbon films hydrophilic plus **Large sample** coating e.g. wafers

## Leica SCD500 High Vacuum Coater for FE-SEM

The Leica EM SCD500 is a versatile high vacuum film deposition system designed to produce very thin, fine-grained metal films and conductive carbon coatings for highest resolution FE-SEM analysis.

A versatile high vacuum oil-free film deposition system using a membrane diaphragm pump offering many options in a single unit; high vacuum sputtering, carbon thread, thermal resistance and carbon rod evaporation, cryo preparation for freeze drying, freeze fracturing/etching, double replica, cryo coating and vacuum cryo transfer with Leica EM VCT100. Interchangeable Vacuum chambers for different sample sizes and processes.

Planetary drive stage provides the best uniformity of the sputter deposition; Rotary and tilting stages achieve excellent shadowing affects and the stepless height adjustable specimen table gives defined film deposition with minimum specimen damage. Pre-selectable and permanently stored sputtering parameters Stepless height adjustable specimen table for defined film deposition with minimum specimen damage with pre-selectable and permanently stored sputtering parameters.

A built-in high voltage etching device for surface cleaning improves adhesion of the subsequent coating or makes carbon films hydrophilic.

**S535** EM SCD500 High vacuum coater