



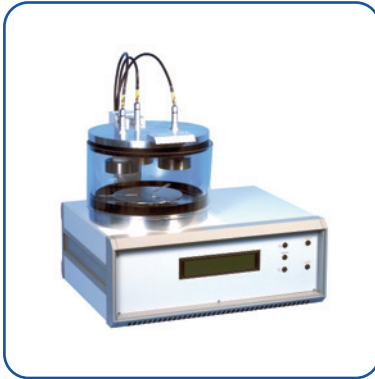
# K650X Large Chamber Sputter Coater with Triple Target Head

large chamber automatic sputter coater with 225mm chamber - for non-oxidising metals

**EMITECH**  
sample preparation

## triple sputtering head design

K650X sputter coater



### K650X Sputter Coater

The K650X is a digitally controlled large chamber sputter coater, ideally suited for SEM and other metal coating applications. There are three magnetron target assemblies in the K650X, which together with a rotating sample table enables even deposition over a large diameter (200mm/6"). This method allows standard targets to be utilised, and avoids the necessity of special, large and more costly profiled targets.

The K650X features menu driven control which allows sputtering parameters to be pre-set to give defined and repeatable film thickness depositions. The K650T is as detailed above, except that it is fitted with a 60L/sec turbomolecular pumping system for a cleaner vacuum.

### Pumping

Requires a 50L/min rotary pump with oil mist filter (see product specifications below).

### Key Features & Benefits

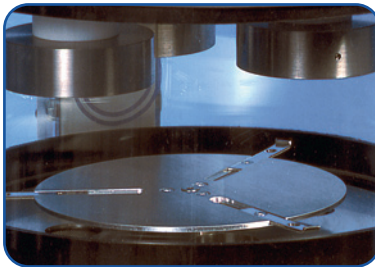
- 225mm (9") diameter chamber - large sample coating (up to 200mm/6")
- Menu driven operation - intuitive, easy to set up and run
- Triple target sputtering system - ideal for large samples, such as silicon wafers
- Low voltage sputtering
- Film Thickness Monitor (FTM) option - repeatable film thickness control
- Rotating stage with tilt fitted as standard - fully adaptable to a wide range of specimens

### Options

- EK4195 Rotate/oscillate sample stage
  - EK4200 Rotate/tilt sample stage
  - K250 Carbon coating attachment, see K500X and K550X for information
- Note:** the K250 has a single carbon fibre or carbon rod source and is therefore suitable for coating small samples (up to 50mm/2"). For carbon coating larger samples see: SC7680
- K150X Film Thickness Monitor (FTM), see: K500X and K550X for information
  - SEM-Basic-1 Starter kit (sample mounting stubs, boxes, mounting media and tweezers)

See: [www.quorumtech.com](http://www.quorumtech.com) for full technical specification and additional details.

Three magnetron target assemblies



### PRODUCT SPECIFICATIONS

Supplied with	3 x TK8842 gold targets, pump hose, operating manual and accessory pack, implosion guard
Electrical	230V 50Hz (8A max including pump), 115V 60Hz (16A max including pump)
Specimen stage	Motor driven rotational stage 165mm with coating up to 205mm. Spacing to target 40mm to 50mm
Target	Disc type 60mm and a thickness of 0.1mm, bonded onto an aluminium backing plate
Additional targets	Please see the "Sputtering Target" table at the rear of this catalogue
Weight & dimensions	450mm W x 350mm D x 175mm H, glass chamber: 225mm D x 125mm H. Weight: 24Kg (unpacked)
Vacuum requirements	Rotary pump: 90L/min. or greater (see: Emitech EK3175). Range: to 10 <sup>-2</sup> mbar
Carbon coating option	Carbon accessory supplied with carbon fibre head and comprising: 25V 0-50A PSU, protection shutter and accessory kit including carbon fibre, cleaning brush etc. Dimensions: 235mm W x 350mm D x 175mm H, weight: 15kg

SPUTTER COATERS



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