

# KRATOS



ES300 Electron Spectrometer



# ES300 series

ES300 is a system, dedicated to surface analysis, and is truly modular allowing the user to tailor it to meet his precise requirements and also allowing him to expand the system to cope with his future requirements, as they occur.

The heart of the ES300 is the 127 mm, 180° deflection hemispherical analyser to which is fitted the retarding lens, sample analysis chamber and the necessary UHV pumping lines. The sample analysis chamber is fitted with 10 ports which allow the user to fit all the sample introduction systems and excitation sources he needs but at the same time leaves other ports available for specialised accessories. Of particular interest

to the industrial user is the availability of a large port for introduction of larger than usual samples.

Excitation sources available include a dual anode X-ray source, X-ray monochromator, UV source and electron gun. Thus the user can, without moving the sample or changing its environment, perform sequentially XPS, AES and UPS analyses.

The user can select the pumping system that is best suited to his particular requirements – trapped diffusion, ion-sublimation or turbo-molecular. Excellent bake-out facilities are provided by a bake-out hood which covers both the spectrometer and accessories, and is time and temperature controlled.

The new DS300 data system, available with ES300 provides not only automatic data acquisition and manipulation but also control of the ES300, allowing unattended operation thereby increasing sample throughput.

- Widest range of sample sizes can be accommodated**
- Lowest background – no sample, no signal**
- Highest sample accessibility in analysis position**
- Highest sensitivity, resolution and scan speed**
- Complete range of excitation sources simultaneously fitted**
- Choice of pumping systems**

