

VG Scienta – Current Development Update on Angle Resolved Time of Flight (ARTOF-10K) Spectrometer and Other Advanced Analyzers

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VG Scienta is uniquely positioned to support UHV engineering projects for scientific research. Our company provides standard components, specialized vacuum systems and surface analytical systems. Our standard catalogue offers a wide range of products (over 2000 items) including linear and rotary drives, manipulators, cryostats, UHV chambers, and vacuum gauging. Our specialized vacuum systems historically have included the booster, and a large part of the main storage ring, at diamond, modular / user proof end stations, together with surface analysis, MBE deposition, and UHV depositions systems. Our surface analytical components include hemispherical electron analyzers and angular resolved/large acceptance angle time of flight spectrometers. VG Scienta is well positioned to support SRC in a number of projects, and a brief presentation of our historical experiences and current capabilities is offered. The major part of the presentation will however focus on recent and current developments in the electron spectroscopy field. Our newest spectrometer, the ARTOF 10k, will be presented as well as advances in high pressure and high energy PES.