

# High $T_C$ superconductors...

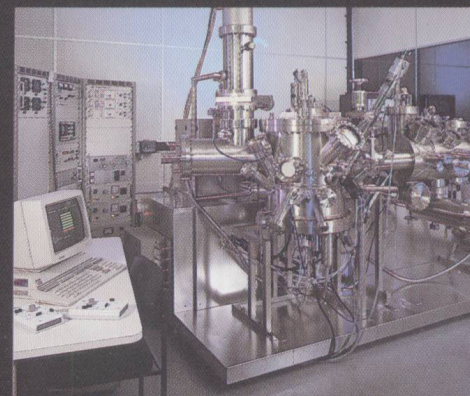
Research into high  $T_C$  thin films has rapidly captured the interest of the scientific community. But achieving better performance from these important ceramics is increasingly difficult.

UHV will prove to be a vital factor in material quality both during growth and subsequent processing. Our experience in UHV systems for controlled growth of difficult alloy systems will help you achieve your goal.

Starting with a low cost basic chamber and fast entry lock, the system can expand to provide pre- and post-growth processing as well as surface analysis techniques such as Auger, XPS and SIMS. All under one UHV environment – particularly ideal for materials sensitive to water vapor.

Our proven high deposition uniformity ensures excellent stoichiometry giving larger areas of high  $T_C$  material.

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*The versatile V80M thin film deposition system has up to 3" substrate capability. Its UHV growth chamber is fitted with three 40cc electron beam sources and three 40cc thermal effusion sources for flexibility in material choice. Provision is made for inlet of either neutral oxygen or an oxygen ion beam.*



**VG INSTRUMENTS**  
vacuum deposition technology

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