

## New Commercial Products

Announcements of new commercial products are published by the Journal of Synchrotron Radiation free of charge. The descriptions, up to 300 words or the equivalent if a figure is included, should give the price and the manufacturer's full address. Full or partial inclusion is subject to the approval of the Main Editors, to whom all correspondence should be sent.

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### Ultrahigh Vacuum Chambers – a New Service from ITL

Instrument Technology Limited has identified a need for specialized high-vacuum and UHV chambers and has expanded its facilities by installing a new **2000 square feet Chamber Division**.

Casualties in the vacuum industry resulting from the recession mean that there are fewer companies with the specialized facilities and expertise to manufacture high-specification UHV chambers. ITL has assembled an experienced team with the capability to answer the demanding requirements of customers in science-based industries and research and development.

High-vacuum and UHV chambers up to 2 m<sup>3</sup> are typically manufactured from 304L or 316L stainless steel to customers' specifications and drawings. A design service is offered whereby customers can discuss their applications with ITL's design engineers who will then submit drawings for approval before manufacture.

Chambers are supplied fully leak tested and chemically cleaned to UHV standards. Non-magnetic mu-metal liners can be supplied where required. Complete vacuum systems with all necessary fittings and accessories from ITL's extensive range can be assembled. Further information can be obtained from ITL's latest vacuum components catalogue which includes a section introducing the facilities of the new Vacuum Chamber Division.

*Instrument Technology Limited, 9 Castleham Road, St Leonards-on-Sea, East Sussex TN38 9NS, UK*

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### New ITL Catalogue with more than 2000 Vacuum Components

The new **1994/5 Vacuum Components Catalogue from Instrument Technology Limited** provides vacuum process engineers and scientists with a 105-page guide to ITL's comprehensive range of KF, ISO and CF components.

In addition to the essential range of basic construction fittings in a choice of high-quality stainless steels, the catalogue lists electrical, instrument and liquid feedthroughs in a selection of flange styles. As one of Europe's largest manufacturers of ionization gauges, ITL offers an exceptionally wide range of glass-encapsulated and nude ionization gauges covering operational pressures from 10<sup>-1</sup> to 10<sup>-9</sup> Pa.

High-quality glass, quartz, sapphire and magnesium fluoride windows are available in a variety of flanges in both zero length and other formats: ITL's differentially pumped viewport offers transmission to 10+ μm.

The range of flexible connectors has been increased to provide KF/CF combinations in all popular sizes; these can be vacuum annealed for added flexibility. Each catalogue section includes a useful reference section describing sealing techniques and applications information.

A completely new section of the catalogue introduces ITL's Vacuum Chamber Division, which specializes in design and manufacture of high-vacuum and UHV chambers to customers specifications.

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### Vacuum Generators Awarded Major Synchrotron Contracts

Vacuum Generators (VG), a member of the Surface Science Division of Fisons

Instruments, has recently won a number of large contracts for the supply of major beamline equipment for use on two of the world's newest synchrotron radiation sources: the Advanced Photon Source (APS) located at Argonne National Laboratory near Chicago, and the European Synchrotron Radiation Facility (ESRF) in Grenoble. The total value of these orders is over £1.0 million. The order from ESRF, for eight additional front-end modules, brings to 44 the total number of such modules ordered by ESRF from VG over the last three years.

#### X-ray monochromators

The equipment purchased for use at the APS comprises four X-ray monochromator units ordered by two collaborative access teams preparing new beamlines there. The teams are from the Industrial Macromolecular Crystallography Association, researching into biological macromolecules and protein engineering for medical and agricultural applications, and from Dupont-Northwestern University-Dow, investigating surfaces, thin films and polymer and materials science.

The double-crystal X-ray monochromator units, used to select photons of the desired energy for onward transmission to the experimental end stations, have been designed by Daresbury Laboratory, and include a number of outstanding design features. X-ray monochromators of this sort have already been installed at Daresbury, ESRF and Sincrotrone Trieste.

#### Front-end modules

The batch of eight front-end modules just ordered by ESRF is the latest in a series of orders that began in 1991, now bringing the total of such modules ordered from VG to 44.

Each module comprises multiple chambers, support frames, power and signal cabling, pneumatics, water cooling and bake-out jacket, and is manufactured, tested, and delivered as a complete sub-system.

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