Torr Scientific Ltd.
Specialists in UHV, Optical and X-ray Components

NEWS

www.torrscientific.co.uk
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Seasons Greetings from Torr Scientific

The staff of Torr Scientific would like to thank you for your support and custom during the whole year and are looking forward to working with you in 2015! We wish you a Merry Christmas and a successful, Happy New Year! Please note that our office is closed from 2.30pm on Wednesday 24th December and re-opens at 8.30am on Friday 2nd January.

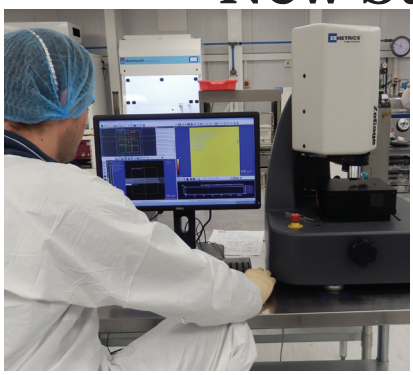
See Torr Scientific at:

Royal Society of Chemistry, Spectroscopy and Dynamics Group Annual Meeting
6-8 January 2015
University of Nottingham, UK

TSL Products:

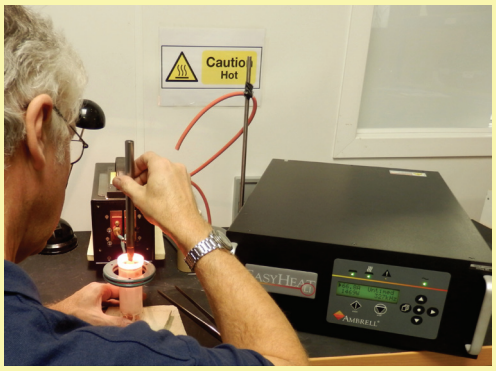
- AR Coatings
- UHV Viewports
- X-ray Sources
- CVD Diamond
- Phosphor Screens
- Filaments
- UHV Components

New Surface Profiler



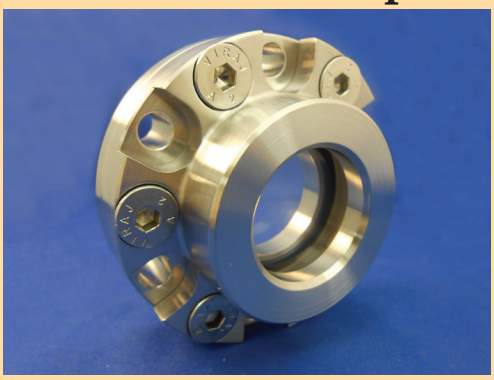
Torr Scientific has extended its optical inspection capability by investing in a new Zygo interferometer surface profiler. The profiler will enable highly accurate non-destructive examination of surfaces to check thicknesses and uniformity of X-ray anode coatings and optical flatness and seal structure of vacuum optics manufactured at the company. "This brings a greater level of quality control and alongside our UV-Vis-IR spectrophotometer strengthens our optical and coating test facilities" said managing director David Bates.

Induction Heater

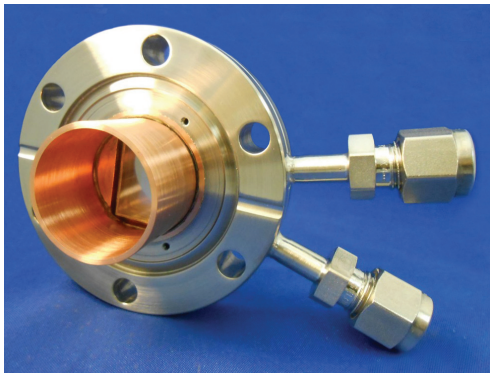


A new induction heater is now in operation in the Glass-to-Metal seal section of Torr Scientific. This will enable the company to develop glass vacuum windows, feedthroughs and X-ray tube encapsulations in addition to the current vacuum brazing techniques applied for production of the vacuum optic range of products.

Exotic Vacuum Optics



Pictured is a recently designed O-ring sealed CF viewport assembly housing a KBr window. This design has been prepared for custom applications requiring exotic crystal optics with particular transmission ranges which cannot be sealed by the company's regular hermetic sealing processes.



Diamond!

This cooled CVD diamond UHV window, designed and manufactured at Torr Scientific, has been installed at The Diamond Light Source. The thin CVD diamond wafers are vacuum brazed at the company for both vacuum window and X-ray tube heatsink applications. "We have tested it under the highest photon flux we can get at the beamline without any X-ray attenuation filters and everything is fine" said Beamline Scientist Dr. Joan Vila-Comamala.

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