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<td>Advanced Design Consulting USA, Inc.</td>
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Applied Vacuum Technology, LLC (AVT) manufactures custom chambers, welded assemblies, flanges and precision components for high and ultra-high vacuum (UHV) systems. Since 1989, AVT has been fabricating custom products for vacuum applications including surface analysis, mass spectroscopy, epitaxial and thin film deposition, UHV feedthroughs, and accelerator beam lines. AVT’s quality system is certified to ISO 9001:2008 and Nuclear Quality Assurance (NQA-1). Our engineers use SolidWorks® 3D design software which enables rapid visualization of your requirements, and quick translation to manufacturing drawings. Also, COSMOSXpress® stress analysis utility helps identify unacceptable chamber wall deformations and weld stresses. AVT has the technical experience and knowledge necessary to fabricate even the most complex vacuum chambers and assemblies in stainless steel, aluminum, titanium, and other alloys. Find further information here: www.appliedvacuum.com AVT is a division of Anderson Dahlen Inc., a full-service contract manufacturer for custom fabricated stainless steel products, equipment and process systems. For over 70 years, ADI has provided world-class metal fabrication and equipment integration services to leading multinational companies in a variety of industries. Our capabilities for metal forming, large scale machining, and critical welding are ideal for manufacturing vacuum chambers. Learn more here: www.andersondahlen.com.

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Incoatec GmbH
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JJ X-Ray
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Tel: +45 477-63000
http://www.jjray.dk
JJ X-Ray is a Danish company that develops, designs, and produces highly specialized components and assemblies for scientific x-ray, synchrotron radiation, and neutron instrumentation. We are widely known for our high-precision and durable JJ X-Ray slits and collimators. Our standard component portfolio is constantly expanding. At present, it also includes: compound refractive lens (CRL) systems, spectrometers, customized positioning, complete beamline solutions, and compact UHV slits. We look forward to continuously providing scientists and engineers around the world with high-performance instrumentation and comprehensive counseling.

Johnsen Ultravac A Division of Johnsen Machine Company Limited
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OX11 OQX, UK
Tel: +44 01235445795
http://quantumdetectors.com

Quantum Detectors principally develops and builds detectors for large scale scientific facilities worldwide, but also universities and industry. The technology behind these devices is based on developments at government labs in the UK and internationally.

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JJ Thomson Avenue
Cambridge, Cambridgeshire CB3 0FA UK
Tel: +44 (0)1223 371 000
http://www.nanopositioning.com

Queensgate specialise in nanopositioning and position sensing solutions for high-tech industries the world over. With the highest stability, performance and reliability to meet individual customer requirements, our solutions have been proven to meet the most challenging demands and environments. Founded in 1978 as a spin-off from Imperial College, London, Queensgate pioneered the use of capacitive metrology for nanopositioning. Headquartered in Cambridge, UK our engineers, scientists and manufacturing experts are at the cutting-edge of research. We can advise on the best use of our market-leading products and provide bespoke systems. We specialize in developing custom solutions for performance-critical OEM applications. By encouraging engineering partnerships, we can produce the best solution at the lowest cost, in the shortest timeframes. Our products include: one, two and three channel stages, controllers and software, two-plane cylindrical piezo stacks, capacitive plates with a variety of optional coatings, nano mechanisms—including tip/tilt, objective lens positioners, nano sensors—including single probe and others. If you have a positioning application where you require a nanopositioning solution find out more at nanopositioning.com.
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<thead>
<tr>
<th>Company Name</th>
<th>Address</th>
<th>Contact Information</th>
<th>Description</th>
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<tbody>
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<td>Rayonix, L.L.C.</td>
<td>1880 Oak Ave, Suite 120, Evanston, IL 60201</td>
<td>Tel: (847) 869-1548, <a href="http://www.rayonix.com">http://www.rayonix.com</a></td>
<td>Rayonix detectors are used worldwide for serial crystallography at synchrotron and XFEL sources. The high-speed, high-resolution x-ray detectors have no count rate limitation, no gaps in the imaging area and only 1μsec dead time. Special detector geometries allow the direct beam to pass through, for simultaneous SAXS/WAXS data collection. Talk to us about custom versions of our detectors. Rayonix is also developing exciting new pixel array technology suitable for the new pulse patterns at updated synchrotron sources and seeks input from potential users.</td>
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<td>RaySpec Ltd.</td>
<td>Sirius House, Watery Lane, Wooburn Green, High Wycombe, United Kingdom HP10 0AP</td>
<td>Tel: +4414628533060, <a href="https://www.rayspec.co.uk">https://www.rayspec.co.uk</a></td>
<td>RaySpec Ltd (formerly SGX Sensortech) is a specialist x-ray detector manufacturer with a long history of excellence in custom designs for synchrotron applications. RaySpec has successfully designed and manufactured many different single- and multi-element SDD detectors which have achieved high performance specifications.</td>
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<td>1900 Taylor Road, Auburn Hills, MI 48326</td>
<td>Tel: (248) 232-6400, <a href="https://www.rigaku.com/en">https://www.rigaku.com/en</a></td>
<td>With 30+ years producing multilayer x-ray optics, Rigaku Innovative Technologies designs and builds high-performing innovative instruments, multilayer coatings and advanced focusing monochromators for beamlines and endstations, including our 2-D Kratky SAXS camera. Capabilities include multiple-stripe DMS, graded d-spacings and picometer-precise coatings on complex optics to 1300mm. NEW: Now refurbishing used optics! Regain your investment in the expensive optical substrate. High-precision Johansson crystals now available.</td>
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<td>Tel: (719) 576-3200, <a href="https://www.saesgetters.com">https://www.saesgetters.com</a></td>
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<td>240 St. Paul Street, Suite 301, Denver, CO 80206</td>
<td>Tel: (720) 350-5000, <a href="http://www.scientaomicron.com/en/home">http://www.scientaomicron.com/en/home</a></td>
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<td>SPECS Surface Nano Analysis, Inc.</td>
<td>20 Cabot Blvd, Suite 300, Mansfield, MA 02048</td>
<td>Tel: (508) 618-1292, <a href="http://www.specs.com">http://www.specs.com</a></td>
<td>SPECS manufactures cutting-edge systems and components for surface analysis in UHV, based on methods like XPS, UPS, AES, ISS, STM, LEEM/PEEM, LEED, SIMS, SNMS, and HREELS. We offer a variety of sources for deposition, excitation and charge neutralization as well as analyzers, monochromators, and research microscopes like LEEM and STM. A strong focus of our work is on customized systems combining thin film preparation (MBE) with spectroscopic and microscopic options.</td>
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<td>475 Wireless Blvd, Hauppauge, NY 11788</td>
<td>Tel: (631) 630-3000, <a href="http://www.spellmanhv.com">http://www.spellmanhv.com</a></td>
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<td>1101 Prosper Drive, Waite Park, MN 56387</td>
<td>Tel: (320) 251-7171, <a href="http://www.starrett.com/tru-stone.com">http://www.starrett.com/tru-stone.com</a></td>
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<td><strong>Sydor Instruments, a Sydor Technologies Company</strong></td>
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<td>291 Millstead Way</td>
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<td>Rochester, NY 14624</td>
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<td>Tel: (585) 278-1168</td>
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<td><a href="http://sydortec.com">http://sydortec.com</a></td>
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