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Vacuum chamber fabrication for various light sources around the world

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For more than twenty-five years, our team has actively collaborated with leading research institutions and synchrotron facilities across the globe to design, engineer, and fabricate a wide range of advanced vacuum chambers. These efforts have supported the development and upgrade of synchrotron light sources in North America, Europe, Asia, and beyond, enabling cutting-edge research in materials science, biology, chemistry, and physics. Through close partnerships, we have delivered customized solutions tailored to diverse beamline and storage ring requirements, incorporating complex geometries, novel materials, and ultra-high vacuum (UHV) specifications. Our work has included chambers for insertion devices, front ends, and beamlines, as well as chambers for novel accelerator designs such as free-electron lasers (FELs.) By continuously advancing fabrication techniques and vacuum technologies, and maintaining a flexible, problem-solving approach, we have contributed to the success of numerous light source projects worldwide. This poster highlights key achievements, lessons learned, and the value of long-term international collaboration in advancing accelerator infrastructure.

Footnotes

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