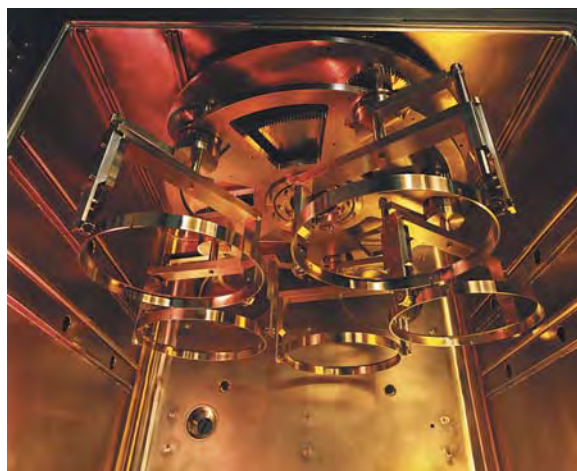


Substrate Fixture Rotation Systems

VPT's planetary systems are used for the most demanding coating applications... because they are accurate, reliable, and durable.

VPT's Planetary Assemblies incorporate wide faced gear drives fabricated entirely of 304 series stainless steel. The main bearings are of an advanced aerospace design, utilizing a Micro-Seal[®] bearing treatment designed for operation in excess of 350°C.

VPT also designs and manufactures specialized fixture configurations, including modified single rotation, counter rotation, dual drive, and a planetary fixture with the ability to flip each substrate planet for second-side coating.



This unique, proprietary flipping assembly eliminates the need for a second complete coating cycle when there is a requirement to coat both sides of a substrate. This flip fixture system can be adapted for virtually any size chamber and process. The design features a low profile to maximize the throw distance and is available in configurations that allow heating up to 300° C. Use of irrational gear ratios is maintained for optimum uniformity of coating.

VPT's flip fixture system may be ordered with any of our **CITATION I™** line of optical coating systems and is also available for retrofit applications.

Many more details available at www.vptec.com