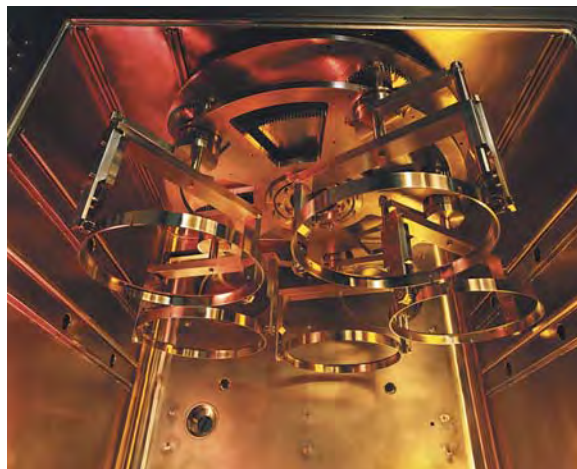


## Substrate Fixture Rotation Systems

*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<sup>®</sup> 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](http://www.vptec.com)