

Press Release



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Enclosure: PSV-A-440 Art 2008.jpg
Reference: PR-0034-FKAP-140409-DERO

PSV-A-440 Derotator

Polytec developed Optical Derotator for areal vibration mapping

The convenient and non-contact mapping of operational deflection shapes is a specialty of Polytec's Laser Scanning Vibrometers. Now also rotating objects such as fans for consumer products and vehicles, turbines or tires can be characterized under real operational conditions up to 24,000 RPM. Sophisticated control electronics track the motion of the rotating object, resulting in a steady position of the laser beam on the rotating object. The deflections shapes and resonant frequencies due to stiffening effects at high RPM levels are measured. By means of the Optical Derotator order analysis and vibration measurements become feasible in a simple manner. Due to the synchronized speeds, the object appears to be at stand still to the operator. A laser Vibrometer scan now becomes again as simple as Polytec customers are used to.

Polytec supplies a complete solution comprising the Rotating Unit with encoder input and an adjustable base frame for angular and high correction, a PSV-400 Scanning Vibrometer and a reference laser.

The Optical Derotator delivers high quality input data for the FEM validation and is an indispensable troubleshooting tool for durability issues and acoustic challenges.

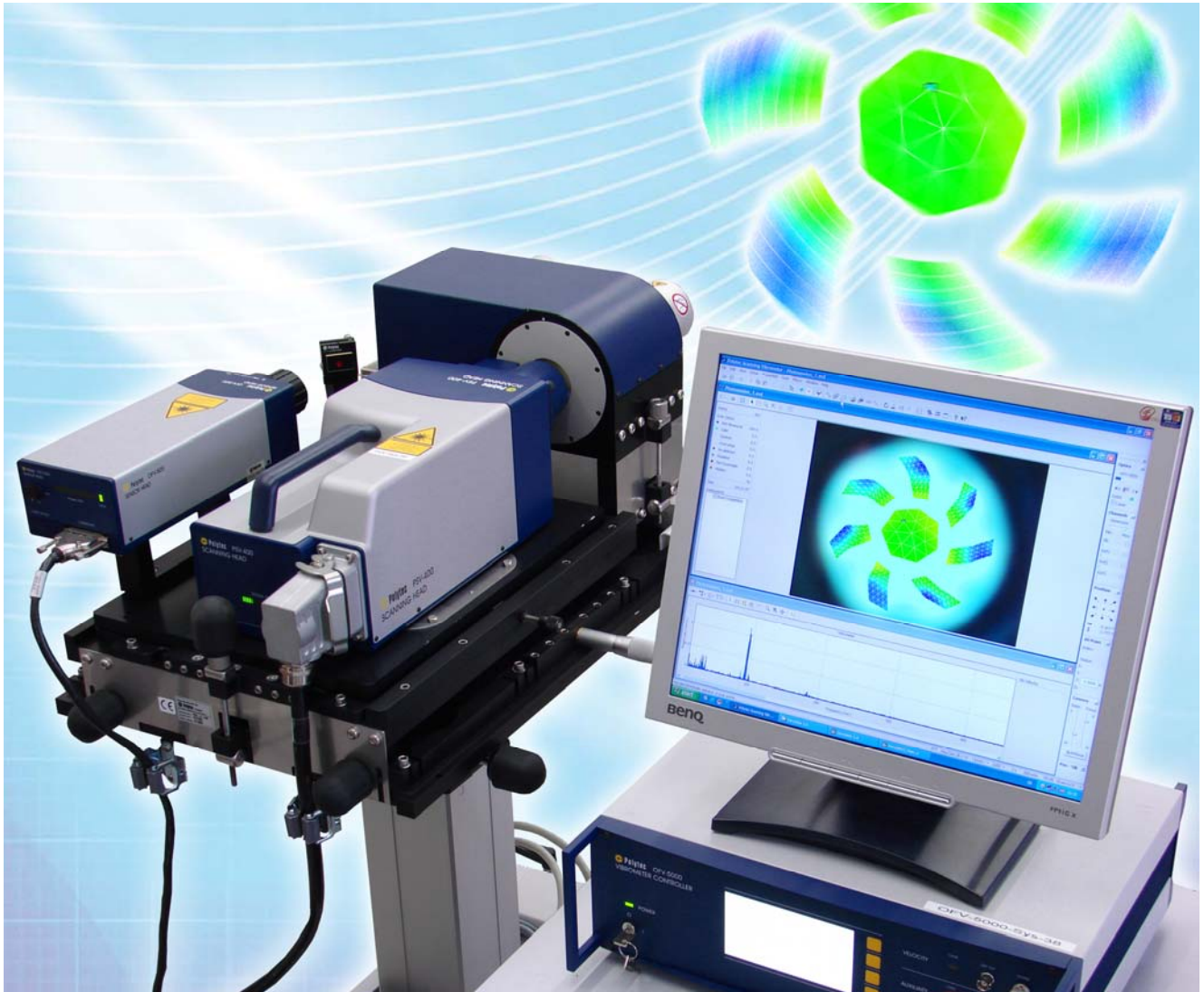
Weblink: <http://www.polytec.com/derotator>

Publication free of charge

For questions please contact
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