

myonic Reaction Wheel Bearings – High Performance and Reliability

Gyro Quality

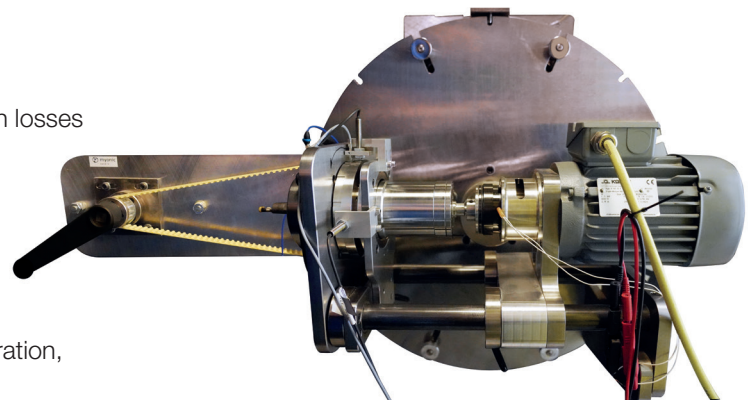
- **Better than ABEC 9 (A9P)** bearings with sub micron runout
- State of the art **200x magnification inspection** – identify micron size defects and ensure raceway quality
- **Better than 0.025 μm Ra** surface finish – reduced friction losses
- **Hybrid bearings** – improved life and counters Electric Discharge failure mechanism

Reaction Wheel Development

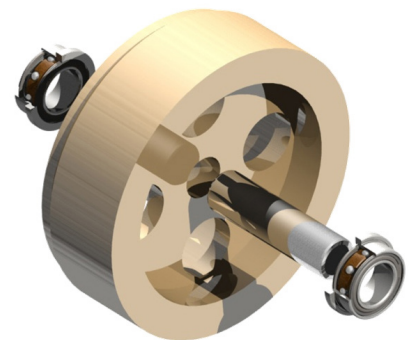
- **Test rig up to 10,000 rpm in any orientation** to test vibration, balance and noise characteristics
- **Design for demise** – open to joint development to improve “Demisability” strategies
- Laser welding and welding dissimilar materials – **hybrid thermal properties**
- Lifetime and performance **optimization calculations**
- **In house balancing**
- **5 axis machining** capability
- Expertise in fine measurement – **improved fitting and assembly**

Proven Expertise in Flywheel and Gyroscope Assemblies

- myonic has a proven history in flywheel and gyroscope assemblies
- Gyro stabilized equipment



Example of ball bearing unit with fly wheel mounted in test rig



myonic manufactures and assembles all components in this assembly