



Miniature Bearings Australia

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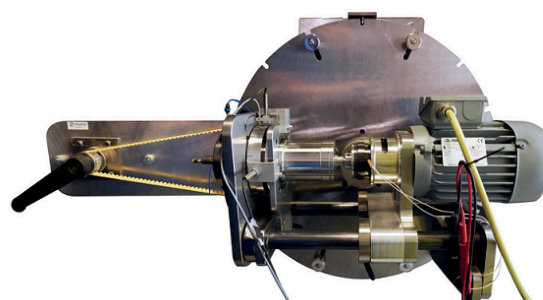
Myonic Reaction Wheels

Miniature Bearings Australia are the distributors for Myonic quality high precision bearings and components in Australia and New Zealand.

Myonic engineers work with customers to provide purpose built cutting edge solutions for satellite stability and positioning.

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



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



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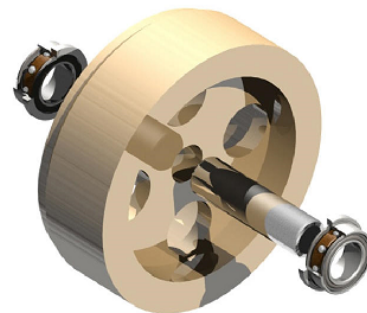
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Gyro Quality

- 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 um Ra surface finish - reduced friction losses
- Hybrid bearings - improved life and counters Electric Discharge failure mechanism



myonic manufactures and assembles all components in this assembly

Proven Expertise in Flywheel and Gyroscope Assemblies

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

