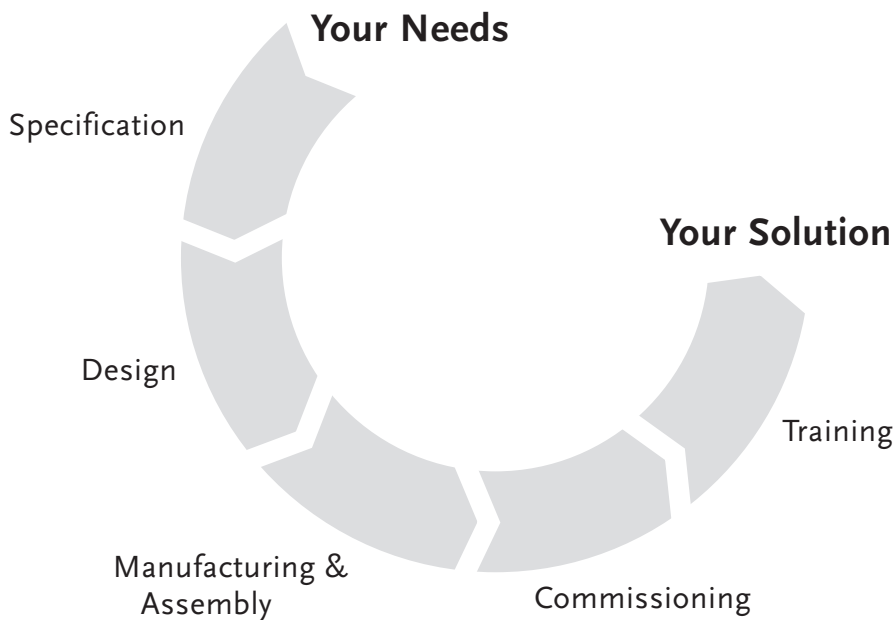
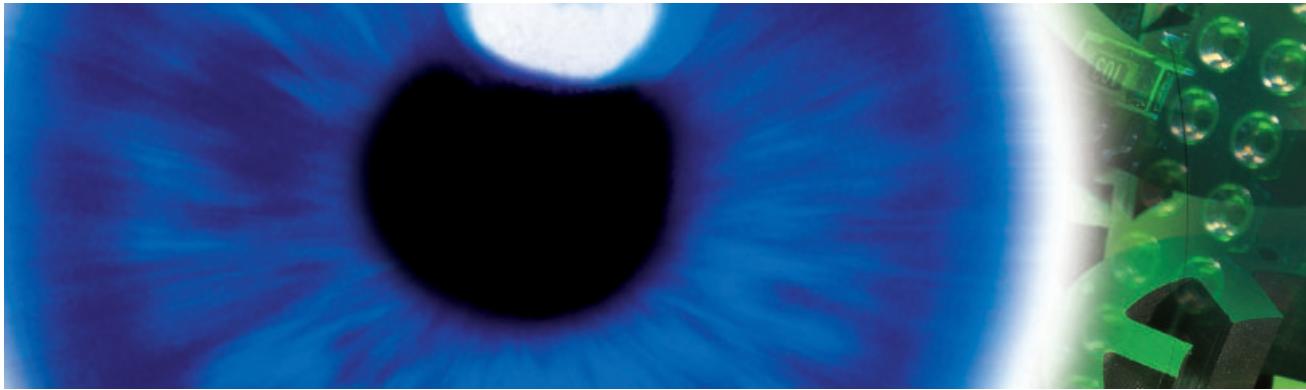


Application ENGINEERING

Services for Magnetic Bearing Systems



«From your needs to your solution, Mecos provides you with all services. From System Specification, magnetic bearings Design to Training of your staff.»

Assessing the needs for an Active Magnetic Bearing solution

Are you considering the switch to AMB (Active Magnetic Bearings)? Have you heard about the technology and are not sure about the benefits for your application? In a first stage, our engineers can provide:

- Information sessions on AMB technology
- Feasibility studies
- Support during specification phase

AMB design

Based on your application's force and stiffness requirements we design magnetic bearings and sensors working under the specified environmental and operational conditions.

Integration of AMB

In close cooperation with your engineering team, MECOS designs the AMB components for integration into your machine – whatever your machine or your turbine wheel might look like.

Stress analysis and calculation

We carry out stress calculations on the whole rotor, thus ensuring safe operation over the whole speed range and the entire machine life.

High-speed motor selection

We cooperate with a leading high-speed motor supplier to make sure you get a state-of-the-art solution for your motor generator element.

Rotor dynamics and controller design

Get better machine performance with our control algorithms. Working over 15 years in the domain of high-speed rotating machinery, we have acquired a deep understanding of rotor dynamics and have developed powerful tools to deal with super-critical and highly gyroscopic rotors and rotor assemblies.

Assembly and commissioning

Our engineers will assist you during assembly of your machine, commission and optimize the system using our state-of-the-art tools and finally train your employees in the use of AMB-equipped machines.

