

Advantages

- Non-contact, therefore wear-free
- Lubricant-free
- Low maintenance
- Hermetic encapsulation (suitable for vacuum applications, clean room)
- Direct Process Monitoring
- Adjustable bearing parameters with control-electronics during operation
- Active damping of vibrations and unbalance



This is us

EAAT GmbH develops and manufactures custom made electrical products and automation and drive technology components. From prototype to series, we are the right partner for you.

Our customers benefit from our many years of experience in developing and manufacturing electrical products.

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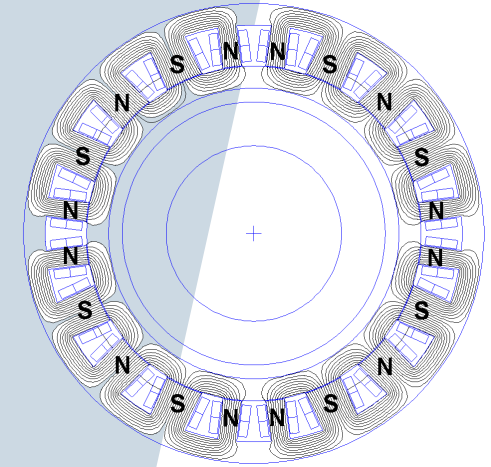
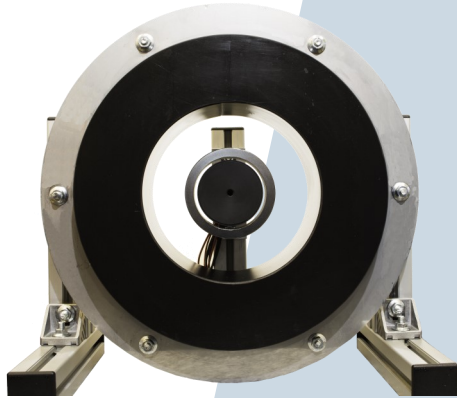
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Magnetic bearings



Magnetic bearings



Discription

Magnetic bearings are a technical alternative to conventional bearing principles. They offer significant advance in bearing technology. Magnetics bearings allow contactless,, lubricant free and virtually maintenance-free bearing of shafts.

For more than 20 years, magnetics bearings have been developed and built by EAAT. These magnetic bearings are used in individual designs in numerous applications and industries, such as in test benches at research institutions. The spectrum ranges from magnetic bearings with a bearing force of 50kN and a speed of 5,800rpm to bearings with less than 100N bearing force and a speed of up to 140,000rpm.

Storage types active and passive

Active Magnetic bearing

- With power supply
- Adjustable position setpoints and damping
- Use in 5 directions of movement

Passive Magnetic bearing

- No power supply
- Less expensive than active solution
- In combination with at least one active bearing, contactles storage is possible.

Functions and applications

Performance and lifetime increase quality machines, such as...

- Gas-Ultracentrifuge
- Compressors and Expanders
- Pumps, Turbines
- Test Benches
- Flywheels (mechanical Energy Storage)
- Vacuum Applications
- Turbo-Molecular Pumps
- Tool Spindles
- Textile Machinery

