



ELGETI
ENGINEERING

Online Bearing Seminars

Fall 2025

- ❖ Basics of Bearing Technology
- ❖ Application Engineering
- ❖ Supplier Development
- ❖ Failure Analysis

Special Package Deals

Designer Package

For those who design and develop machinery:

You will explore advanced bearing design and acquire the expertise needed to assist purchasing teams in sourcing suitable bearings for specific applications.

Included Sessions:

Basics of Bearing Technology: complete

Application Engineering Session 1: Advanced bearing design

Supplier Development Session 1: Introduction

Trader Package

For those who buy and sell bearings:

You will deepen your understanding of the product, customer needs, and common failures faced by bearing vendors.

Included Sessions:

Basics of Bearing Technology: complete

Supplier Development Session 1: Introduction

Bearing Failure Analysis Session 1: Introduction

Complete Package

For those who want expertise:

Attend our complete seminar program to build a broad and solid knowledge base. This package comes in with a special price for all the sessions!

Included Sessions:

Basics of Bearing Technology: complete

Supplier Development: complete

Application Engineering: complete

Bearing Failure Analysis: complete

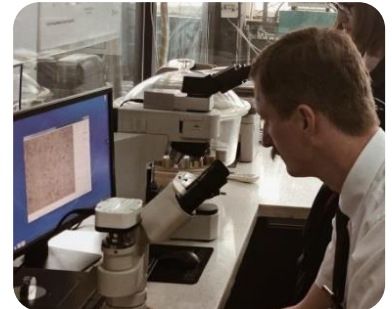
Basics of Bearing Technology

Session I

September 16th, 2025

Introduction

- Bearing types
- Cages
- Bearing arrangements
- Interfaces (design requirements)



Session II

September 23rd, 2025

Properties I

- Tolerances (clearance, precision, etc.)
- Lubrication (grease and oil)
- Life calculation acc. to ISO 281

Session III

September 30th, 2025

Properties II

- Internal geometry (profiling, osculation)
- Materials
- Quality



Session IV

Oktober 07th, 2025

Bearing Installation and Sealing

- Best installation practices
- General sealing methods
- Sealing properties and requirements



Session V

Oktober 14th, 2025

Preventive Maintenance

- Oil sample analysis
- Regular inspection and endoscopy
- Condition monitoring by vibration measurement

Sessions last 90 minutes and are offered at two different times:

- 09:00 Central European Time / 15:00 China Standard Time
- 17:00 Central European Time / 11:00 EST-EDT

Failure Analysis

Session I

September 24th, 2025

Session II

September 30th, 2025

Session III

Oktober 08th, 2025

Session IV

Oktober 15th, 2025

Introduction

- Methods for inspection
- Examples of failures related to poor lubrication
- Premature failure due to contamination

Properties

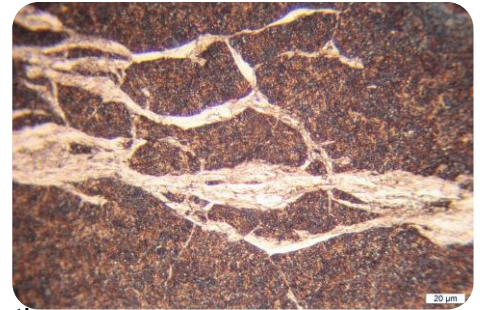
- Internal geometry
- Materials
- Quality

Electricity

- Electric erosion
- White etching cracks

Additional Causes for Failure

- Premature failure due to faulty installation
- Improper fits
- Shape errors of surrounding parts
- Cage fracture



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- 17:00 Central European Time / 11:00 EST-EDT

Supplier Development

Session I

September 25th, 2025

Session II

September 30th, 2025

Session III

Oktober 09th, 2025

Session IV

Oktober 16th, 2025

Introduction

- Motivation
- Definition of quality levels

Properties

- Internal geometry
- Materials
- Quality

Production

- Approach during factory visits and audits
- Requirements for the documentation of production

Quality Control

- Methods for sample inspection and incoming control
- Approach for initial approval
- Concepts for quality control



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- 09:00 Central European Time / 15:00 China Standard Time
- 17:00 Central European Time / 11:00 EST-EDT

Session I
Oktober 01st, 2025

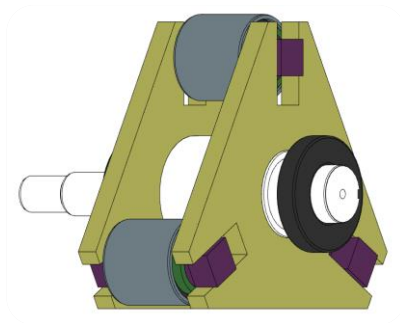
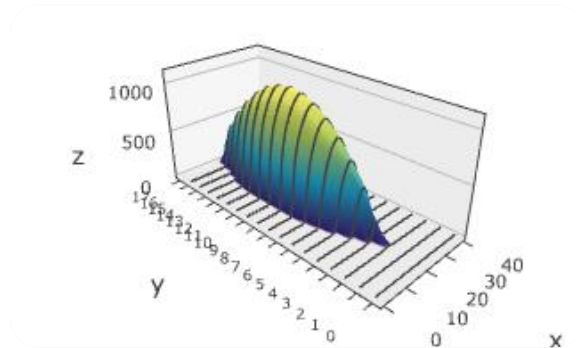
Advanced Bearing Calculation

- General design recommendations
- Grease lubrication
- Example: electric motor with belt drive
- Example: helical gearbox considering local stresses

Session II
Oktober 02nd, 2025

Acceleration on Bearings

- Planetary gearboxes, eccentric rotors
- Cages exposed to vibrations
- Failure modes, design and testing methods



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- 17:00 Central European Time / 11:00 EST-EDT