

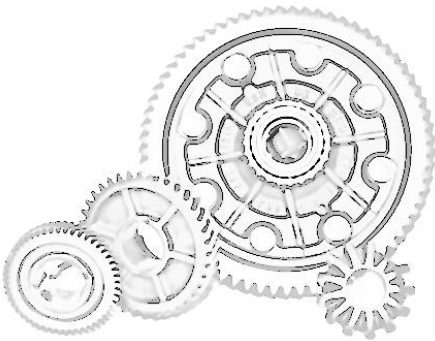


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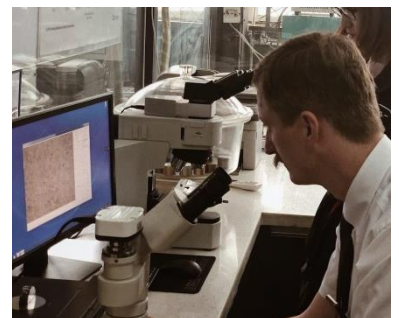
Online Seminar Winter 2021

- Development of bearing suppliers and quality control during purchasing
- Basics of Bearing Technology
- Failure Analysis



Basics of Bearing Technology

- Session I (free): Introduction
19th of January 2021, 15:00 Central European Time
- Bearing types
 - Cages
 - Bearing arrangements
 - Interfaces (design requirements)
- Session II: Properties I
26th of January 2021, 15:00 Central European Time
- Tolerances (clearance, precision, etc.)
 - Lubrication (grease and oil)
 - Materials
- Session III: Properties II
2nd of February 2021, 15:00 Central European Time
- Internal geometry (profiling, osculation)
 - Life calculation acc. to ISO 281
 - Sample inspection (including quick testing)
- Session IV: Preventive Maintenance
9th of February 2021, 15:00 Central European Time
- Oil sample analysis
 - Regular inspection and endoscopy
 - Condition monitoring by vibration measurement



Development of bearing suppliers and quality control during purchasing

- Session I (free): Introduction
16th of February 2021, 15:00 Central European Time
- Motivation
 - Definition of quality levels
- Session II: Quality Specification
23rd of February 2021, 15:00 Central European Time
- Quality characteristics
 - Technical description
- Session III: Production
2nd of March 2021, 15:00 Central European Time
- Approach during factory visits and audits
 - Requirements for the documentation of production
- Session IV: Quality Control
9th of March 2021, 15:00 Central European Time
- Methods for sample inspection and incoming control
 - Approach for initial approval
 - Concepts for quality control



Failure Analysis

Session I (free):

Introduction

16th of March 2021, 15:00 Central European Time

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

Session II:

Faulty Bearings

23rd of March 2021, 15:00 Central European Time

- Typical failure patterns of faulty bearings related to:
 - Crowning
 - Cracks
 - Poor material
 - Undercuts

Session III:

Electricity

30th of March 2021, 15:00 Central European Time

- Electric erosion
- White etching cracks

Session IV:

Additional causes for failure

6th of April 2021, 15:00 Central European Time

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



Registration Form



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52070 Aachen

I hereby register for the following online seminars:
(Please indicate in the first column)

Enroll yes/no	Date/Time	Title	Price per pers. €	Lang.
Single webinars:				
	01/19	Basics of bearing technology Session I: Introduction	FREE	English
	01/26	Session II: Properties I	175.00	English
	02/02	Session III: Properties II	175.00	English
	02/09	Session IV: Preventive Maintenance	175.00	English
	02/16	Bearing supplier development, Session I: Introduction	FREE	English
	02/23	Session II: Quality specification	175.00	English
	03/02	Session III: Production	175.00	English
	03/09	Session IV: Quality control	175.00	English
	03/16	Failure analysis Session I: Introduction	FREE	English
	03/23	Session II: Faulty bearings	175.00	English
	03/30	Session III: Electricity	175.00	English
	04/06	Session IV: Additional causes for failure	175.00	English
Packages:				
		Complete Package: Basics of bearing technology, session I to IV	345.00	English
		Complete Package: Bearing supplier development, session I to IV	345.00	English
		Complete Package: Failure anaysis, session I to IV	345.00	English
Name of participant				
Company				
Address				
Billing address (optional)				
PO No. (optional)				
Phone and e-mail				
VAT ID No. (people from EU)				
Signature				

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Prices do not include VAT.
The participation fee is due before start
of the webinar and is non-refundable.

Each registration is for one person only.

By subscription, the participant agrees
to share their name and company name
to the other attendees.

Each session ca. 90 min, starting 15:00
Central European Time

Location:

Web meeting on the following platform:
• Zoom

(Link will be shared by email after
registration.)