



MORGOIL BEARING SYMPOSIUM

MAINTENANCE TRAINING

WARREN, OH USA

RECOMMENDED FOR

- Roll shop supervisors and management
- Maintenance supervisors and management
- Mill operations supervisors and management
- Engineering, purchasing and management personnel involved in the selection of oil film and roller bearings
- Mill personnel responsible for oil film bearing performance and reliability
- Lubrication maintenance personnel
- Mill builders, engineers and management

COURSE OBJECTIVE

The course objective is to train participants on advanced MORGOIL Bearing maintenance and service techniques, which will lead to longer bearing service life, improving mill productivity and reliability.

COURSE INFORMATION

Date: May 6-8, 2020

Location: Warren, Ohio USA

Tuition: \$960 USD / Per person

FOR FURTHER INFORMATION CONTACT

Primetals Technologies USA LLC

Attn: Parrish Gallant

40 Crescent Street, Worcester, MA 01605

Phone: +1(508)826-3847

E-mail: parrish.gallant@primetals.com





GENERAL OIL FILM BEARING THEORY

This segment of the seminar will cover the general relationships between rotational speed, rolling load, lubricant viscosity and the resulting hydrodynamic pressure field response, plus the lubricant temperature rise.

The purpose will be to provide a general overview of hydrodynamic oil film bearing theory and how it applies to load-carrying bearings on rolling mills.

MORGOIL BEARING DESIGNS AND OPTIONS

This segment of the seminar will cover the MORGOIL designs in detail, beginning with the radial load-carrying elements. Also to be covered will be the axial positioning design, the sealing designs, the mounting and locking designs and the closure designs. Options such as hydrostatic, hydraulic mount, LD locks and sealing technologies will be presented.

The purpose of this segment will be to provide a detailed review of the MORGOIL designs such that all participants are familiar with the bearing components, types, nomenclature and optional features.

MORGOIL BEARING MAINTENANCE

This segment of the seminar will cover typical preventative maintenance requirements for operating MORGOIL Bearings. A general overview of maintenance procedures and the possible consequences of not following these recommendations will be presented. This segment will also provide background and instructions for analyzing failed bearings (due to heat, failed lubrication, components interference, etc.). Bearing assembly and disassembly procedures necessary for adequate bearing maintenance will be covered in detail. Participants will learn to uncover the root causes of bearing failures and to understand proper corrective actions for preventing additional failures and will understand what happens as a result of careless handling, neglected maintenance and poor lubrication.

The purpose will be to provide a general overview of the MORGOIL maintenance requirements and to learn bearing failure analysis and corrective action. The role of the worldwide MORGOIL field service organization will be discussed, so that the participants know the MORGOIL technical resources available worldwide to diagnose and correct any problems that occur.

2019 MORGOIL LUBRICANTS AND LUBRICATION SYSTEMS MAINTENANCE

This segment will cover the lubricants used and the important operating characteristics of these oils. Included will be viscosities, viscosity indexes, demulsibility and other related lubricant requirements. Also to be covered will be the lubrication system requirements, including lubricant reservoirs, pump specifications, cooler and filtration requirements, plus pressure and flow control devices. The activities required to commission the MORGOIL lubrication system, including the calibration of the bearings will be covered. This segment will also include an overview of hydrostatic systems and the history of pad designs.

The purpose will be to provide a detailed review of the MORGOIL lubricant requirements and the system specifications as well as design features. Learning to maximize bearing life through a detailed understanding of proper lubricating principles and functions is another key objective.

MORGOIL APPLICATION ALTERNATIVES

This segment of the seminar will cover the application of MORGOIL Bearings to meet rolling mill design parameters. MORGOIL sizes, series and capacities will be presented, and the MORGOIL interrelationship with back-up roll sizes and chock requirements will be discussed. We anticipate simulating the actual selection process, such that the participants will have an opportunity to choose bearings for several typical applications.

The purpose will be to provide an in-depth knowledge of the MORGOIL selection process and the various mill operating parameters that are important in this activity.

Discussions on bearing ratings of the K, KL and KLX designs will be reviewed in detail.

OIL FILM BEARINGS COMPARED TO ROLLING ELEMENT BEARINGS

This segment of the seminar will cover comparative issues between hydrodynamic oil film bearings and rolling element bearings. The effect of speed, load and lubricants will be discussed.

The purpose will be to provide a general overview of comparative application issues.



MORGOIL BEARING SYMPOSIUM

MAINTENANCE TRAINING

May 6-8, 2020 - WARREN, OH USA

PLEASE PRINT CLEARLY IN ALL FIELDS

Name: (First) (Middle) (Last)

Company: Title:

Address 1:

Address 2:

City:

State: Zip: - Tel:

- - Ex: Cell: - -

E-mail:

Job function: Purchasing Roll shop Operations Maintenance
 Other (please specify)

PLEASE SEND COMPLETED FORM OR E-MAIL TO

Primetals Technologies USA LLC
 Attn: Parrish Gallant
 40 Crescent Street, Worcester, MA 01605

E-mail: parrish.gallant@primetals.com