Innovation in Motion

Tailormade bearings

The use of plain bearings opens up new opportunities for our customers in many industries. We develop and produce bearings for con rods and main shafts in a wide range of applications:

- High-speed conversion presses
- High pressure pumps
- Reciprocating piston compressors
- Homogenizers
- Combustion engines

Our Bearing Offer

Increased output through the combination of material and design expertise

Expert support and optimization at every project stage through close partnership with Miba

Lower assembly and maintenance costs and increased throughput thanks to Miba's design and manufacturing capabilities

Reliable supply chains and localized service through global footprint.

Miba Bearing Group

Miba Gleitlager Austria GmbH
Laakirchen, Austria
T +43 7613 2541-0
M bearinggroup@miba.com

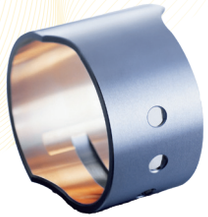
Miba Bearings US LLC
McConnelsville, OH 43756, USA
T +1 740 962 4242
M bearinggroup@miba.com

Miba Precision Components Co. Ltd.
Suzhou, China
T +86 512 6285 0900
M bearinggroup@miba.com

Hydrodynamic Plain Bearing Solutions

Increased load capabilities

Robust performance



Tailormade solutions

Hydrodynamic plain bearing technology

Enabling your future solutions

The use of Miba´s hydrodynamic plain bearings increases the performance and opens up new opportunities for your systems.

Expertise and lifecycle
High-speed presses must withstand extreme conditions to ensure reliable and efficient press performance.

Leveraging advanced material expertise and selection, our products offer increased load capability and enhanced resistance to temperature effects. This ensures superior performance and reliability even in the most demanding conditions.

Additional advantages
- Resistant to corrosive utilities
- More resilient to shock loads
- Higher rotation speeds
- Easy installation and service
- Higher power densities
- Reduced noise
- Long service life due to hydrodynamic mode (unlimited lifetime)

We can actively support you in the realization of your system – starting from the first concept along the whole product lifecycle.

CONCEPT

Feasibility study
- Hydrodynamics
- Technical specifications
- Bearing loading
- Target costs

DESIGN

Bearing design
- Assembly situation
- Hydrodynamic simulation
  - Cranktrain hydrodynamics
  - Housing optimization support
  - Fretting risk
  - Cavitation risk
  - Lifetime estimation
  - Oil flow system
- Model testing
- Bearing type recommendation
- Validation program

PRODUCTION

Bearing supply
- Production of bearing and supply

VALIDATION

Bearing validation
- Prototype supply
- Assembly test
- Bearing inspection
  - Lifetime
  - Phenomena analysis
  - Improvement opportunity
  - Lifetime accompanying program

SERVICE

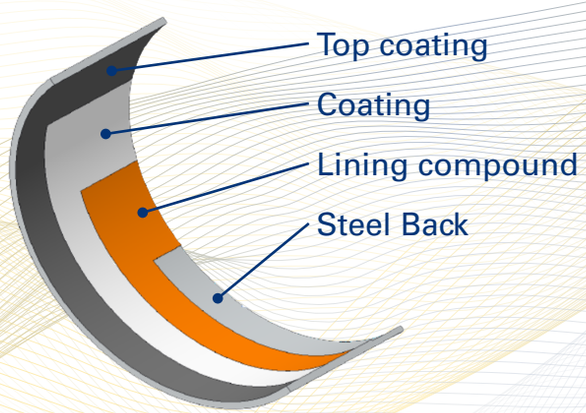
Service
- Remaining bearing life program
- Special investigation services
- Improvement support on demand
- Bearing judgment criteria

Innovation in Motion Miba

Multilayer bearing

For increased load capabilities and wide temperature range

The steel backing is responsible for the strength of the bearing system. The tribological requirements are ideally implemented thanks to the multi-layer structure consisting of lining compound (bearing metal) and coatings.



Lining compound:
Aluminium, Bronze, Babbitt

Coatings:
Electroplating, Sputtering, Synthec® Coatings

Depending on the application, the bearing will be designed to the individual requirements.