

We pioneer motion

# Schaeffler Solutions for Liquid Pumps



# Under Constant Pressure – and Still Reliable and Efficient

Pumps are used in all industries for a wide variety of applications. Wherever liquids are pumped, trouble-free and energy-efficient operation is essential.

Intelligent service solutions not only reduce costs, working time and risks, but also make user-friendly and safe work conditions possible. Our service solutions are essential building blocks for competitive, future-ready production.

From intelligent condition monitoring, automatic lubricators and premium lubricants to expert services – Schaeffler is the partner of choice for comprehensive solutions.

## Relubrication with CONCEPT reduces downtime and maintenance costs

Nearly 80% of all bearing damage is due to lubrication problems, most commonly grease aging, incorrect grease quantity or grade, and contaminant ingress. Schaeffler lubricators can largely prevent these problems because they automatically supply fresh lubricant to the bearing contact points with high accuracy, at the right intervals and in the correct metered quantity.



## Design your own bearing arrangement with our BEARINX-online module “Easy Pump”

The basis for the design of the bearing arrangement of liquid pumps is the operating data, primarily the effective bearing forces, speeds and lubrication conditions.

Our free online calculation services enable you to conduct your own service life calculations of individual shaft models in order to select the optimum design.



## Medias

is an integrated platform comprising the Schaeffler product catalog, advisory and design tools, and a fully implemented e-commerce solution. And with medias-interchange, you can quickly and easily search by competitor product designation to find the right Schaeffler equivalents. In addition to the above bearing types most commonly used for pumps, our core product portfolio includes diverse types of commonly used tapered roller bearings, four-point bearings, axial and radial spherical roller bearings, needle roller bearings and a full range of accessories.

See for yourself at : [medias.schaeffler.com](https://medias.schaeffler.com)



# Our Range of Products and Services for Your Industry

## Quality equipment means maximum availability, no matter where

The specific requirements and standards that rolling bearings need to meet vary according to area of use, application and design. Schaeffler offers maximum availability for an extensive range of premium standard bearings, enabling you to benefit from friction-optimized design, energy-efficient operation, longer operating life and longer maintenance intervals.



Pumped-storage power plant



### Deep groove ball bearings

In addition to the usual standard versions, we always have stocks of our popular 62.. and 63.. series lubricated-for-life ball bearings with 2Z non-contact-shielded seals, L069 or L207 high-temperature grease and C3 radial clearance.



### Single row angular contact ball bearings

These are manufactured as universal bearings, intended for mounting in pairs directly adjacent to each other. We offer maximum stock availability for commonly used designs in the 72.. and 73.. series with MP and TVP cage options. Further categorized into UO (clearance-free), UB (small axial internal clearance) and UA (slightly larger axial internal clearance than UB).



### Double row angular contact ball bearings

For high-performance applications, our popular 32.. and 33.. series bearings commonly use 2Z non-contact-shielded seals or 2HRS contact seals in combination with L285 premium grease.



### Cylindrical roller bearings

The X-life class bearings offer improved surface quality, optimized internal construction and enhanced contact geometry between the rollers and raceway. In terms of design, this means higher load ratings and hence longer rated life. In practice, this translates into lower operating temperatures and extended operating life.



### Our Insutect-coated bearings prevent current passage

The external dimensions of our current-insulated rolling bearings match normed dimensions and are therefore interchangeable with standard bearings. The coating thickness on our J20AB-design bearings is 100µm, which is standard for pump applications and provides excellent protection against damage by current passage in both dry and damp conditions.



### Affordable condition monitoring with Schaeffler OPTIME

Schaeffler OPTIME makes condition monitoring of all equipment affordable. OPTIME is a fully automated solution that enables you to cost-effectively monitor all auxiliary assemblies throughout your entire plant.



### Automatic lubricators

Our CONCEPT lubricators are available in models 1 to 8 and are ideal for difficult-to-reach locations and auxiliary assemblies. You have flexibility regarding lubricants because you can buy the lubricators pre-filled with Schaeffler ARCANOL rolling bearing greases, or you can buy them empty so that you can fill them yourself.



### Premium lubricants

Our ARCANOL range includes MULTITOP, a high-quality standard bearing lubricant that delivers proven performance in a wide range of pumps. And for higher-temperature applications, there's our ARCANOL TEMP90 – guaranteed to give you longer relubrication intervals in high-temperature operating environments.

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