

Industrial slide bearings

Slide bearings with plain sliding surfaces

Plain slide bearings are used in slide bearing applications where adequate lubrication is guaranteed.

Possible designs:

- Slide bearings with plain surfaces and flange
- Additionally with grooves and holes for lubricant supply



Slide bearings with plain sliding surface

Slide bearings with lubrication indents ST

The lubrication indents (ST) have different shapes in order to handle different lubricating assignments.

Diamond-shaped lubrication indents are preferably used for grease lubrication, the spherical indents are used for liquid lubricants such as oil.

Advantages:

- Guaranteed function without frequent relubrication
- Deposit of foreign particles in the lubrication indents
- Can be reduced to any width without any disadvantages for the lubrication indents
- Better press fit and higher load capacity than LD bushings



Slide bearing with lubrication ST

Slide bearings with hole pattern LD

Slide bearings with hole pattern (LD = long-term lubrication with depot) are suitable for all types of grease. Bushings with lubrication indents ST can easily be replaced by slide bearings with hole pattern LD.

Advantages:

- Significantly larger grease depot compared to bushings with grooves or lubrication indents
- Extension of the running time and the relubrication interval compared to ST bushings
- Collection of dirt and wear particles in the lubrication holes



Slide bearing with hole pattern LD

Slide bearings with seals LDD/STD

Slide bearings with seals **LDD/STD*** can be delivered with seals inserted on one or both sides, depending on the application. This slide bearing type is specially designed for thin-walled slide bearings.

Advantages:

- Significant running time extension by optimal lubrication and protection against penetrating moisture and dirt in comparison to ST and LD bushings
- Minimal space requirements compared to standard seals
- Only one assembly part instead of different single parts
- Seals and slide bearings are 100% recyclable
- Any common type of grease can be used
- Easy installation



Plain bearings with seals LDD/STD

*LDD = Langzeitschmierung mit Depot und Dichtung

*STD = Schmiertaschen mit Dichtung

Slide bearings for axial piston pumps / motors

The very high pressures in axial piston pumps are a challenge to the material and the precision of the parts. Therefore high-strength materials are increasingly used in the following applications.



Slide bearing for axial piston pumps/ motors

Sleeves made of Wieland SA5 und SX1

Wieland SA5 is a special brass which has been specially developed for sleeves in axial piston pumps and which has been successfully used in serial production for many years. The addition of manganese and silicon results in the formation of hard manganese silicides making the material extremely wear-resistant. The lead-free alternative today is Wieland SX1.



Sleeves made of Wieland SA5 and SX1

Slippers made of Wieland SB7, Wieland SX1 and Wieland SA9

Slippers are not only high precision bearing elements, they are also exposed to extreme high loads.

The used special brasses, which form hard silicides due to the addition of manganese and silicon, have not only a very high wear resistance but also a very high fatigue strength.

Due to these properties they can be used without any problems under high dynamic loads and at high operating temperatures.



Slippers made of Wieland SB7, SX1 and SA9