

# Oilless Bearings for Excavators

## Application

Finding Your Excavator Bushing Solution. Welcome to our comprehensive catalog of Oilless Bearings tailored for the demanding needs of excavators. Our range of metallic bearings and brass bearings with solid lubricants provides the perfect solutions for various critical components of excavators. Discover where these bearings can be applied and why they are the top choice for your excavator's bushing needs.

## Where Can They Be Used?

Our Oilless Bearings are versatile and can be used in various crucial parts of excavators, including:

**Bucket Pivot Points:** These bearings excel in bucket pivot points, facilitating smooth and precise movements for digging and lifting operations.

**Boom and Arm Joints:** For excavators, the boom and arm joints are vital components, and our bearings offer exceptional wear resistance and durability in these areas.

**Swing Gear Bearings:** Smooth and reliable swing gear operation is essential for excavators. Our bearings ensure minimal friction and long-lasting performance.

**Track Rollers and Idlers:** These bearings can also be used in track rollers and idlers, contributing to the longevity and efficiency of the undercarriage system.



## Main Oilless Bearing Types

### 1. Metallic Bearings

Our metallic bearings are designed to provide high load-carrying capacity and excellent wear resistance. They are suitable for heavy-duty applications in excavators and offer the following advantages:

**High Load Capacity:** These bearings can withstand the extreme loads encountered in excavator operations.

**Low Friction:** Reduced friction ensures smooth and efficient movement, increasing excavator productivity.

**Long Service Life:** Exceptional wear resistance extends the service life of these bearings, reducing downtime and maintenance costs.

### Metallic 500SP1 Bushings for Excavators



### Product Description:

Metallic bearings have been widely recognized for their exceptional performance in various applications, and our Metallic 500SP1 Bushings are no exception. These self-lubricating bearings are engineered to meet the rigorous demands of excavators, ensuring smooth operation, reduced maintenance, and extended service life. Let's explore the key features and specifications of these robust bushings.

### Key Features:

**Advanced Brass Alloy Base:** The 500SP1 bushings are crafted from a high-strength brass alloy base,

manufactured using advanced casting technology. This base material provides outstanding durability and load-bearing capacity, making them ideal for heavy-duty excavator applications.

**Embedded Solid Lubricants:** These bushings are equipped with embedded solid lubricants, ensuring continuous and reliable self-lubrication. The choice of solid lubricant can be tailored to suit specific usage conditions, allowing for versatility in application.

### Chart of Specifications:

Specification	Dry Lubrication	Periodic Lubrication
Lubrication Conditions	Dry	Periodic lubrication
Service Temperature Range (°F)	-40 to +572	-40 to +302
Allowable Max. Contact Pressure (P)	29 N/mm <sup>2</sup>	29 N/mm <sup>2</sup>
Allowable Max. Velocity (V)	0.50 m/s	1.00 m/s
Allowable Max. PV Value	1.65 N/mm <sup>2</sup> · m/s	3.25 N/mm <sup>2</sup> · m/s

## 2. Brass Bearings with Solid Lubricant

Our brass bearings with solid lubricants are engineered for exceptional self-lubrication capabilities. These bearings offer several advantages:

**Self-Lubricating:** The solid lubricants embedded in the brass material provide continuous lubrication, eliminating the need for external lubrication.

**Low Maintenance:** With self-lubrication, these bearings reduce maintenance efforts, enhancing the overall efficiency of your excavator.

**High Wear Resistance:** Brass bearings with solid lubricants offer excellent wear resistance, ensuring long-lasting performance even in harsh conditions.



## Special Brass Bearing 500SP5 Bushings for Excavators



### Product Description:

Introducing our Special Brass Bearing 500SP5 Bushings, meticulously engineered to meet the rigorous demands of excavators. These bushings are a testament to high-strength brass bearings, featuring embedded solid lubricant for continuous self-lubrication. They offer superior wear resistance, customization options, and compliance with environmental standards such as ROHS and ELV. Let's explore the remarkable features and specifications of these exceptional bushings.

### Key Features:

**Special High-Strength Cast Brass Base:** The 500SP5 bushings are crafted from a special high-strength cast brass base, boasting even higher strength and hardness compared to the 500SP1. This unique base material ensures outstanding durability and load-bearing capacity, making them the top choice for high-load excavator applications.

**Embedded Solid Lubricant:** These bushings are equipped with embedded solid lubricants, ensuring uninterrupted self-lubrication even under challenging conditions. The combination of robust materials and self-lubrication guarantees extended service life and dependable performance.

**Custom-Made Products:** Our 500SP5 bushings can be customized to meet specific requirements, ensuring they align perfectly with your excavator's needs. They also adhere to environmental standards like ROHS and ELV, prioritizing both performance and environmental responsibility.

### Chart of Specifications:

Specification	Dry Lubrication	Periodic Lubrication
Lubrication Conditions	Dry	Periodic lubrication

Service Temperature Range ( ° F)	-40 to +302	-40 to +302
Allowable Max. Contact Pressure (P)	49 N/mm <sup>2</sup>	49 N/mm <sup>2</sup>
Allowable Max. Velocity (V)	0.25 m/s	0.50 m/s
Allowable Max. PV Value	1.65 N/mm <sup>2</sup> · m/s	3.25 N/mm <sup>2</sup> · m/s

## Why Choose Our Oilless Bearings

Choosing our Oilless Bearings for your excavator's bushing needs provides several key benefits:

**Reliability:** Our bearings are built to withstand heavy loads and harsh conditions, ensuring the reliability and longevity of your excavator's performance.

**Cost Efficiency:** The self-lubricating design reduces the need for frequent lubrication and maintenance, leading to cost savings over time.

**Versatility:** Our bearings can be applied to various critical components, offering a comprehensive solution for your excavator.

Our Oilless Bearings, including metallic bearings and brass bearings with solid lubricants, are the ideal choice for excavators. Ensure the smooth and reliable operation of your excavator by choosing bearings that are built for durability, self-lubrication, and exceptional performance. Find your excavator bushing solution with us today.

