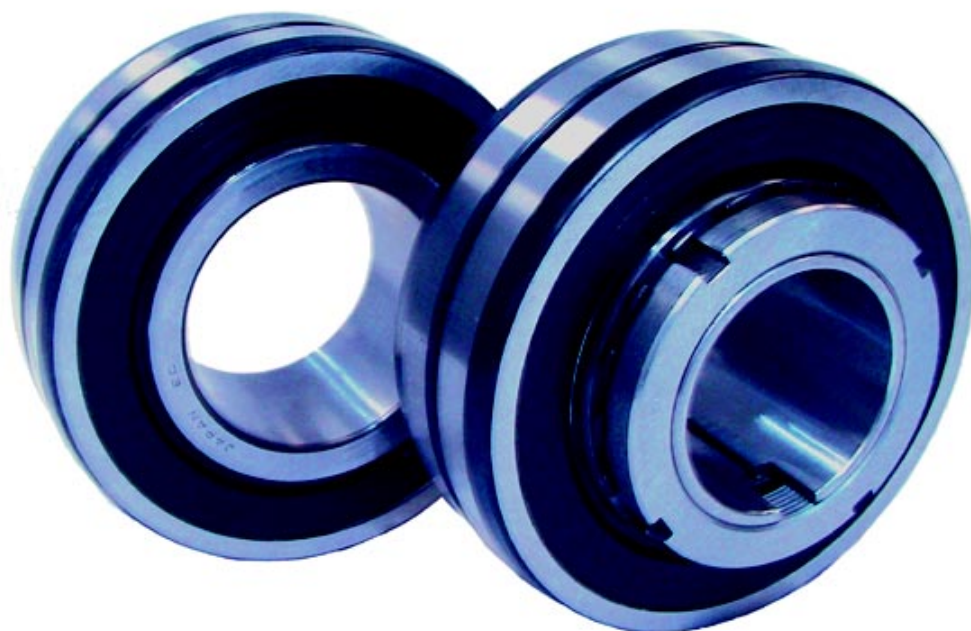


# NTN

NTN corporation

## SEALED FELT ROLL BEARINGS



CAT.No. C-3600

# NTN's Sealed Spherical Roller Bearing: The optimum choice for today's paper mills



## 1. Bearing Design and Features

NTN's Sealed Spherical Roller Bearing is the optimum choice for today's paper mills - offering longer life, lower maintenance costs and reduced downtime. NTN's range of Sealed Spherical Roller Bearings have been designed to meet the critical demands of wet-end paper machine felt rolls, where extended life is needed and frequent lubrication is not practical. The technical advancements engineered into the NTN Sealed Spherical Roller Bearing include:



### **Heavy Duty Contact Seals:**

NTN's advanced seal design prevents water contamination during operation and washdown procedures, providing outstanding protection against rust and corrosion.

### **Premium Lubrication:**

Factory pre-lubricated with optimal grease fill, specially selected for felt roll applications operating under extremely contaminated conditions and for those difficult applications requiring extended lubrication intervals.

### **Load Capacity Optimized for Felt Roll Applications:**

Load capacity designed and optimized for reduced stress, improved reliability, and longer operating times between maintenance inspections and lubrication.

### **Dimensionally Equivalent to 223 Series Bearings:**

Designed as a direct drop-in replacement interchangeable with all competitive units.

## 2. Applications: Spherical roller bearing for felt rolls

As an integral part of the wet end of a paper machine, felt roll bearings are subject to the ingress of corrosive contaminants through existing housing seals during operation as well as during wash-down procedures. This contamination significantly reduces bearing life. In order to prevent this, felt roll bearings must be lubricated frequently to purge contaminants. In many cases, lubricant programs are consolidating lubricants that are not suitable for felt roll applications, resulting in reduced bearing life and overall performance. Better sealing is required, while modification to existing roll and housing components must be kept to a minimum.

To meet the demands of wet-end paper machine felt rolls, NTN has developed an optimized spherical roller bearing with integral seals.



The bearing incorporates two robust contact seals, which complement any existing sealing currently used in the housing. These seals keep out contaminants, preventing accelerated wear, limiting lubricant deterioration, reducing lubricant requirements and so extending lubricant intervals. The bearing package provides a premium lubricant pre-filled at NTN's manufacturing factory. The bearing is designed as a direct replacement for the ISO 223xx series bearings found in felt roll applications.

## 3. Dimension Table

**Features:** Integrally greased and sealed at factory  
Capacity optimized for felt roll applications  
Dimensionally equivalent to standard ISO bearing

NTN Bearing Part Number	d (mm)	D (mm)	B (mm)	Cr (N)	Cor (N)	n <sub>o</sub> (rpm)	Reference NTN Part Number
2P1109LLD1/3A	55	120	43	145 000	163 000	2 400	22311BL1D1
2P1212LLD1C3/3A	60	130	46	167 000	191 000	2 200	22312BL1D1C3
2P1410LLC3/3A	70	150	51	220 000	262 000	1 900	22314BL1D1C3
2P1608LLD1/3A	80	170	58	260 000	315 000	1 700	22316BL1D1
2P1608LLKD1/3A	80	170	58	260 000	315 000	1 700	22316BL1KD1
2P1821LLC3/3A	90	190	64	320 000	400 000	1 500	22318BL1D1C3
2P1821LLKC3/3A	90	190	64	320 000	400 000	1 500	22318BL1KD1C3
2P2231LLC3/3A	110	240	80	495 000	615 000	1 200	22322BL1D1C3
2P2633LLKC3/3A	130	280	93	700 000	910 000	1 000	22326BL1KD1C3



## Sealed Felt Roll Bearings



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