Link-Belt® Sleeve Block Bearings

INSTALLATION INSTRUCTIONS 21200, 21400, and DSB2800

Bearing Mounting Procedure

WARNING: These instructions should be read entirely and followed carefully before attempting to install or remove Link Belt Rigid Sleeve bearings. Failure to do so can result in improper installation which could cause bearing performance problems as well as serious personal injury

SOLID HOUSED UNITS

1. Inspect shaft size (see shaft tolerance table, Page 2). Shaft must be to correct size. Clean shaft and mounting surface as needed.
2. Position bearings on the shaft. Coat shaft with oil or grease to facilitate assembly.
3. Install and sung mounting bolts.
4. Check for lubricant clearance and alignment. Bearing-shaft alignment is achieved when uniform clearance is observed on both ends of the bearing.
5. Where shimming is required, use large area shims that run across entire base of the housing.
6. Tighten mounting bolts to torque values based on SAE grade bolts used.

SPLIT HOUSED UNITS

1. Inspect shaft size (see shaft tolerance table, Page 2). Shaft must be to correct size. Clean shaft and mounting surface as needed.
2. Position bearings on the shaft. Coat shaft with oil or grease to facilitate assembly.
3. Cap and base are machined as matched units and are not interchangeable
4. To improve lubricant distribution, chamfer base and cap at split line parallel to the shaft illustrated in Figure 1. Do not chamfer when the joint is in the load supporting area.
5. Install and sung mounting bolts.
6. Replace shims and cap as marked. When assembling cap and shims align match marks and be sure shims do not touch the shaft.
7. Torque cap bolts or nuts to firmly seat the base and cap but do not distort shims.
8. Check for lubricant clearance and alignment. Bearing-shaft alignment is achieved when uniform clearance is observed on both ends of the bearing.
9. Tighten mounting bolts to torque values based on SAE grade bolts used.

ADDITIONAL INSTALLATION COMMENTS

1. Position housings for accessibility of grease fittings.

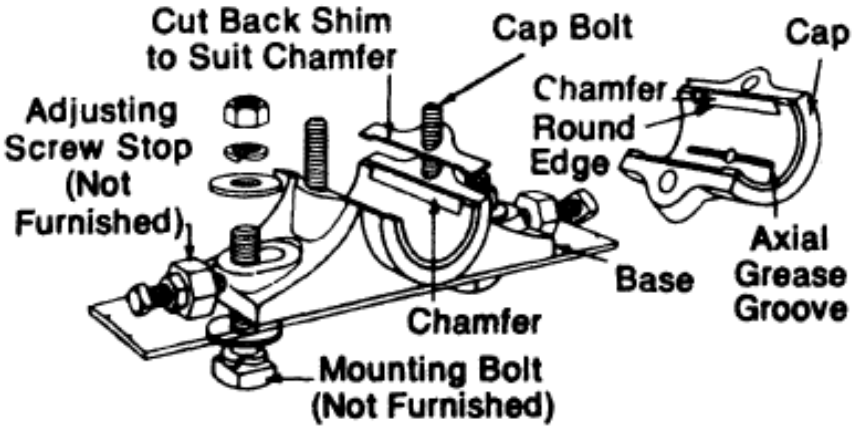
LUBRICATION INFORMATION

-Rigid sleeve bearings can be lubricated by using a grease or oil lubricating device. When grease cups or pressure fittings are used, apply pressure until grease appears at the ends of the unit. Inspect bearings frequently when first operated to determine a satisfactory lubrication interval.

MAINTENANCE

Bearings must be protected against adverse operating conditions and they must be adequately lubricated. Protective shields should be installed where dirt cannot fall directly on the bearings. Units should be periodically checked for wear. All split housing units have shims between base and cap, and as wear develops sufficient shims should be removed to reduce excess clearance between shaft and bearing surface. Inspection of bearing installations at least every six month is recommended. Any unusual noise or vibration change should be immediately investigated.

FIGURE 1—Parts Identification



Link-Belt® Sleeve & Flex Block Bearings

INSTALLATION INSTRUCTIONS
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Table 1 – Bearing Material and Unit Type Selection for Rigid Sleeve Units

Material		Recommended loading range, degrees, radius for pillow block or flanged unit*		Available shaft sizes, inches	Rigid unit series		
					Pillow block		Flanged Unit
Bearing	Housing				2-bolt	4-bolt	Square
Babbitt	Cast iron one-piece		300° **5.2 rad**	1/2 - 2 15/16	1000		
				3/4 - 3 15/16			F2200
				3 7/16 - 3 15/16		1000F	
	Cast iron two-piece		120° **2.1 rad**	7/8 - 3 15/16	2-1200		
				3 7/16 - 4 15/16		2-1300	
			300° **5.2 rad**	1 15/16 - 8		2-1400	
			120° **2.1 rad**	1 15/16 - 9		2-1500	
Bronze	Cast iron one-piece		300° **5.2 rad**	1/2 - 2 15/16	1000Z		
				3/4 - 3 15/16			F2200Z
				3 7/16 - 3 15/16		1000FZ	
	Cast iron two-piece		120° **2.1 rad**	7/8 - 3 15/16	2-1200Z		
			300° **5.2 rad**	1 15/16 - 8		2-1400Z	
			□ 120° **2.1 rad**	1 15/16 - 8		2-1500Z	
	Cast steel two-piece		300° **5.2 rad**	1 15/16 - 12		2K1400Z	

SHAFT TOLERANCE TABLE – INCHES	
Rigid Sleeve Bearings	**Tolerance**
Through 1”	Nominal to -.002”
1 1/8” – 2”	Nominal to -.003”
2 1/16” – 4”	Nominal to -.004”
4 1/16” – 6”	Nominal to -.005”
6 1/16” – 13”	Nominal to -.006”

A. IT IS EXPRESLY AGREED THAT THE FOLLOWING WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSLY IMPLIED OF STATUTORY. INCLUDING THOSE OF **MERCHANTABILITY** AND FITNESS FOR A PATICULAR PURPOSE, AND OF ANY OTHER OBLIGATION OR LIABILITY ON OR PART OF ANY KIND OR NATURE WHATSOEVER.

No representative of ours has any authority to waive, alter, vary, or add to the terms hereof without prior approval in writing, to our customer, signed by an officer of our company. It is expressly agreed that the entire warranty given to the customer is embodied in this writing. This writing constitutes the final expression of the parties agreement with respect to warranties, and that it is a complete and exclusive statement of the terms of the warranty.

We warrant to our customers that all Products manufactured by us will be free from defects in material and workmanship at the time of shipment to our customer for a period of one (1) year from the date of shipment. All warranty claims must be submitted to us within ten days of discovery of defects within the warranty period, or shall be deemed waived. As to Products or parts thereof that are proven to have been defective at the time of shipment, and that were not damaged in shipment, the sole and exclusive remedy shall be repair or replacement of the defective parts or repayment of the proportionate purchase price for such Products or part, at our option. Replacement parts shall be shipped free of charge f.o.b. from our factory.

This warranty shall not apply to any Product which has been subject to misuse; misapplication, neglect (including but not limited to improper maintenance and storage); accident, improper installation, modification (including but not limited to use of unauthorized parts or attachments), adjustment, repair or lubrication. Misuse also includes, without implied limitation, deterioration in the Product or part caused by chemical reaction, wear caused by the presence of abrasive materials, and improper lubrication. Identifiable items manufactured by others but installed in or affixed to our Products are not warranted by use but, bear only those warranties, express or implied, given by the manufacturer of that item, if any. Responsibility for system design to insure proper use and application of Link-Belt Products within their published specifications and ratings rests solely with customer. This includes without implied limitation analysis of loads created by torsional vibrations within the entire system regardless of how induced.

B. It is expressly agreed that our liability for any damage arising out of or related to this transaction, or the use of our Products, whether in contract or in tort, is limited to the repair or replacement of the Products, or the parts thereof by use, or to a refund of the proportionate purchase price. We will not be liable for any other injury, loss, damage, or expense, whether direct or consequential, including but not limited to use, income, profit, production, or increased cost of operation, or spoilage of or damage to material, arising in connection with the sale, installation, use of, inability to use, or the replacement of, or late delivery of, our Products.