



RUBBER PARTS CATALOG....

BUSHINGS

VIBRATION, SHOCK & MOTION CONTROL

Phone 262.632.2345
Toll Free 800.657.0747
Fax 262.632.0271

SOLUTIONS - FOR A WORLD IN MOTION

We offer standardized products to meet most applications. Some control problems, however, require specialized solutions such as a custom-designed mount or a combination of LORD products. Our experts in vibration and noise control can analyze your individual requirements and provide you the most effective and affordable solution ... Ask Us How.

SURFACE EFFECT MOUNTS



Surface-Effect Mounts combine surface-effect damping principles with traditional rubber-bonded-to-metal technology. The result is a soft mount capable of providing effective damping over large deflections and a wide range of frequencies. As cab and engine mounts in on- and off-highway vehicles, Surface-Effect Mounts meet the most demanding requirements for vibration isolation and noise attenuation while controlling motion.

Compression Load Range: 3,115 - 6,987 N (700 - 1,570 lbs)

CONICAL MOUNTS



LORD Conical Mounts provide effective vibration isolation and noise attenuation with a simple, robust mount design. Consistent performance, high load bearing capabilities and a choice of radial stiffness characteristics are key features of these mounts. For more demanding vibration and noise reduction requirements, LORD integrates Conical Mounts with surface-effect technology to form an advanced control solution known as Surface-Effect Systems.

Compression Load Range: 801 - 11,392 N (180 - 2,560 lbs)

SANDWICH MOUNTS - FLEX-BOLT™



Efficient power transmission and driveline component durability are among powertrains designers' most important concerns. Increased durability and up-time are two characteristics demanded by purchasers of today's complex and expensive machinery. These demands can only be met with reliable, trouble-free, smooth-running powertrains free from damaging loads that compromise component life.

Compression Load Range: 27 - 59,808 N (6 - 13,440 lbs) Shear Load Range: 4.45 - 7,476 N (1 - 1,680 lbs)

CENTER-BONDED MOUNTS



LORD Center-Bonded Mounts isolate vibration, control shock and reduce noise due to structure borne vibrations. Available in a full range of rated load capacities and able to withstand shock loads of 10 g's, these mounts effectively protect equipment and improve operator comfort. They are ideal for automotive, marine, railroad and industrial markets.

Compression Load Range: 334 - 9,345 N (75 - 2,100 lbs)

TWO-PIECE MOUNTS



LORD Two-Piece Mounts are designed for applications involving severe dynamic forces in the static load direction, as well as the rebound direction. Travel is limited in both directions by rubber in compression that provides snubbing.

Compression Load Range: 178 - 15,352 N (40 - 3,450 lbs)

BINOCULAR/SPLIT MOUNTS



LORD Binocular/Split Mounts are designed for applications involving severe dynamic forces in the static load direction, as well as the rebound direction. Travel is limited in both directions by rubber in compression that provides snubbing.

Compression Load Range: 4,450 - 6,675 N (1,000 - 1,500 lbs)

PLATEFORM MOUNTS



LORD Plateform Mounts provide effective isolation against vibration. The contour of the flexing element was developed to provide uniform stress distribution. This, plus high strength bonding and the use of specially compounded elastomers, provides maximum service life.

Compression Load Range: 2 N - 2.225 N (0.5 - 500 lbs)

GROMMET ISOLATORS



LORD Grommet Isolators provide effective, economical vibration isolation for light loads. They are suitable for commercial and military applications including computers, disk drives, business machines, precision instrumentation and general industrial equipment.

Compression Load Range: 4 - 27 N (1 - 6 lbs)

MACHINERY MOUNTS



LORD Machinery Mounts are designed to support heavy equipment and isolate intermittent or continuous vibration. The result is greater machine accuracy, longer service life, smoother operation and reduced maintenance. These mounts are available in four types to suit different

Compression Load Range: 223 - 33,375 N (50 - 7,500 lbs)

BUSHINGS



LORD Center-Bonded Bushings and Square-Bonded Bushings are used in applications where the absorption shock, attenuation of noise, reduction of wear and elimination of lubrication is required.

Compression Load Range: 890 - 41,385 N (200 - 9,300 lbs)

VIBRATION, SHOCK & MOTION CONTROL





BUSHINGS



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ENGINEERING ASSISTANCE

Frequently vibration isolation problems require a system engineering analysis. DeltaFlex has the computer capability, as well as specialized programs, for analyzing engine/ transmission combinations. The output from these analyses is a mounting proposal which optimizes performance over the complete range of operating speeds. This service is available to you upon request. If you require this type of engineering assistance please call 800.657.0747 we will be glad to assist you.

"Shock absorption, noise attenuation and wear reduction without lubrication..."

Featuring: Center-Bonded Bushings Square-Bonded Bushings

LORD Center-Bonded Bushings and Square-Bonded Bushings are used in applications where the absorption shock, attenuation of noise, reduction of wear and elimination of lubrication is required.

Center-Bonded Bushings are designed to be loaded radially and utilize a soft torsional spring rate to provide freedom in rotation. High radial restraint maintains the alignment between joined parts. They are not intended for use where extreme rotational motion will occur. Typical applications include heavy duty highway equipment, drilling equipment, harvesters, combines and industrial machinery.

Square-Bonded Bushings accommodate angular movement and isolate vibratory disturbances in heavy equipment. These bushings combine a torsional spring with an elastomeric pivot and isolator. They provide positive torsional positioning and pivot action under the most demanding operating conditions. Typical applications include wheel suspensions, vibratory feeders, mobile power equipment and vibratory cable layers.

Easy to install, the uncomplicated designs of the Center-Bonded and Square-Bonded Bushings provide initial economy, while the rugged elastomers and high strength bonding assure extended service life.

Features and Benefits

- Easy to install
- Uncomplicated design provides initial economy
- High-strength bonding assures extended service life
- Minimal maintenance due to specially compounded elastomer

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CENTER-BONDED BUSHINGS W/ OUTER MEMBER





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Center-Bonded Bushings With Outer Member

Table 1 - Specifications and Dimensions

Part Number	Maximum Radial		Spring Ra	Spring Rate Radial		ional	Recommended Socket Dimensions						
	Static Lo	ad Rating	(K rad)		1015	lonai	Diam	neter	Length				
	lb	N	lb/in	N/mm	lb-in/deg	N-mm/deg	in ±0.001	mm	in	mm			
J-3830-13	300	1334	14,000	2451	3.6	410	1.245	31.6	0.88	22.35			
J-5385-31	1000	4448	36,600	6408	18.7	2128	1.743	44.3	2.00	50.80			
J-6729-2	6000	26,689	150,000	26,265	119	13542	1.996	50.7	4.00	101.60			
J-6740-3	9300	41,368	256,000	44,825	475	54055	3.231	82.1	4.00	101.60			

Table 2 - Specifications and Dimensions

		Part Dimensions														
Part Number	,	4	E	3	(3	D									
	in	mm in mm		in	mm	in	mm									
J-3830-13	0.516	13.1	1.253	31.8	1.00	25.4	0.75	19.1								
J-5385-31	0.504	12. 8	1.750	44.5	2.62	66.5	1.00	25.4								
J-6729-2	1.129	28.7	2.000	50.8	4.25	108.0	1.31	33.3								
J-6740-3	1.500	38.1	3.234	82.1	7.50	190.5	2.12	53.8								

Figure 1 - Part Dimensions (With Outer member)

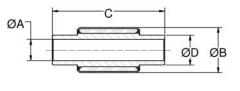


Figure 2 - Part Dimensions (Without Outer Member)

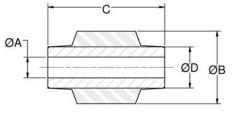
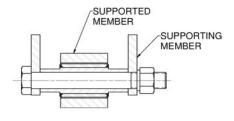


Figure 3 - Installation View



First determine the amount of static loading at the installation point. Then determine the conditions under which the joint will operate. The following should be used as a guide to part selection for Type "A" and Type "B" service.

TYPE A: Extreme conditions (reversing dynamic load or distortion at high frequency – over 600 cpm), use 1/3 the Radial Static Load Rating.

TYPE B: Average conditions (constant radial load, intermittent shock), use the Radial Static Load Rating.

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J-5807-1

J-5971

J-6729

J-6145



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WITHOUT OUTER MEMBER



Center-Bonded Bushings Without Outer Member

Table 3 - Specifications and Dimensions

1							Recommended Socket Dimensions							
Part Number	Maximum Radial Static Load Rating		Spring Rate Radial (K rad)		Tors	ional	Diame		Length					
r art Number	lb	N	lb/in	N/mm	lb-in/deg	N-mm/deg	in ±0.001	mm	in	mm				
J-3830-6	200	890	13,700	2398	4.8	546	1.06	27.05	0.88	22.35				
J-2005-2	250	1112	14,800	2591	3.0	339	0.70	17.78	1.00	25.40				
J-4705-2	625	2780	25,200	4412	16	1906	1.28	32.63	1.44	36.58				
J-6424-1	780	3470	39,200	6863	23	2597	1.37	34.92	1.47	37.34				
J-6310-1	925	4115	27,500	4815	25	2823	1.72	44.68	1.56	39.62				
J-5385-32	1000	4448	26,200	4587	24	2710	1.58	40.25	2.12	53.85				
J-5950	1125	5004	40,000	7004	94	10613	2.22	56.38	1.88	47.75				
J-5506	1800	8007	24,600	4307	58	6548	2.75	69.85	2.25	57.15				
J-7121-2	1950	8674	105,000	18,385	100	11290	1.75	44.45	2.75	69.85				
J-7231-1	2075	9230	168,000	29,416	81	9145	2.44	61.97	1.81	45.97				

105

260

123

796

For installation instructions, refer to Bushings, Installation Guide section.

2700

3200

5250

8200

① Tolerance is \pm 0.015 in (\pm 0.381 mm) for joints without outer member.

2.31

3.70

1 75

4.00

58.67

93.98

44.45

101.60

3.00

2.25

4 00

4.00

76.20

57.15

101.60

101.60

11055

29356

13887

89868

Table 4 - Specifications and Dimensions

12.010

14,234

23.353

36,475

96,000

102,000

164,000

312,000

16.809

17,860

28.716

54,631

	Part Dimensions														
Part Number		A	E	3	(3		D							
	in	mm	in	mm	in	mm	in	mm							
J-3830-6	0.517	13.1	1.12	28.4	1.00	25.4	0.75	19.1							
J-2005-2	0.315	8.0	0.75	19.1	1.06	26.9	0.44	11.2							
J-4705-2	0.641	16.3	1.37	34.8	1.63	41.4	0.88	22.4							
J-6424-1	0.627	15.9	1.45	36.8	1.53	38.9	1.00	25.4							
J-6310-1	1.004	25.5	1.84	46.7	1.69	42.9	1.25	31.8							
J-5385-32	0.504	12.8	1.75	44.5	2.62	66.5	1.00	25.4							
J-5950	1.316	33.4	2.39	60.7	2.24	56.9	1.50	38.1							
J-5506	1.360	34.5	2.97	75.4	2.75	69.9	2.00	50.8							
J-7121-2	1.003	25.5	1.94	49.3	2.99	75.9	1.19	30.2							
J-7231-1	1.457	36.9	2.63	66.8	1.94	49.3	2.00	50.8							
J-5807-1	1.251	31.8	2.47	62.7	3.37	85.6	1.62	41.1							
J-5971	1.503	38.2	3.93	99.8	2.50	2.50 63.5		76.2							
J-6729	1.129	28.7	1.86	47.2	4.25	108.0	1.31	33.3							
J-6145	2.008	51.0	4.19	106.4	6.00	152.4	3.25	82.6							

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BUSHINGS

SQUARE-BONDED BUSHINGS







BUSHINGS - SQUARE-BONDED

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Square-Bonded Bushings

Table 1 - Specifications and Dimensions

ENGINEERING ASSISTANCE

Part Number	Maximum Radial Static Load Rating		Radial	Spring	Static To	orque @		Part Dimensions							
			Rate (K rad)		15 degrees ①		Key Location	Α		В		С			
	lb	N	lb/in	N/mm	lb-in	N-mm		in	mm	in	mm	in	mm		
J-6450-19	700	3114	25,000	4378	400	45,212	Υ	1.75	44.5	2.62	66.5	0.626	15.9		
J-8203-19	1700	7562	60,000	10,506	1500	169,545	Y	2.38	60.5	3.25	82.6	1.379	35.0		
J-8203-35	1700	7562	100,000	17,510	2400	271,272	Υ	2.40	61.0	3.25	82.6	1.379	35.0		
J-9832-11	5000	22,241	160,000	28,016	5200	587,756	X	3.42	86.9	4.00	101.6	2.009	51.0		

For installation instructions, refer to Bushings, Installation Guide section.

① Rated static angular deflection is 15° for all parts. Maximum recommended deflection, static plus dynamic is 45° for all parts. Heavy wall tubing is recommended for proper operation.

Table 2 - Specifications and Dimensions

		Part Dimensions														
Part Number	D		E		F		G		Н		I		J	ı		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
J-6450-19	1.00	25.4	1.17	29.7	1.62	41.1	1.75	44.5	0.191	4.9	0.719	18.3	0.09	2.3		
J-8203-19	1.62	41.1	2.15	54.6	2.25	57.2	3.00	76.2	0.191	4.9	1.444	36.7	0.09	2.3		
J-8203-35	1.62	41.1	2.15	54.6	2.25	57.2	3.00	76.2	0.191	4.9	1.442	36.7	0.09	2.3		
J-9832-11	2.53	64.3	2.50	63.5	3.25	82.6	3.75	95.3	0.253	6.4	2.128	54.1	0.09	2.3		

To select a Square-Bonded Bushing for your requirements, compute the static torsional load it must support. Select from Tables 1-2, a bushing with static torque at 15° which is equal to or greater than the computed load.

Compute the static plus the dynamic torsional load. If this total load exceeds three times the static torque at 15°, select a larger size static torque rating part. Static radial load should also be computed and compared to the maximum static radial load listed above. Dynamic plus static radial load can also be three times loads listed above.

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SQUARE-BONDED BUSHINGS



Figure 1 - Part Dimensions

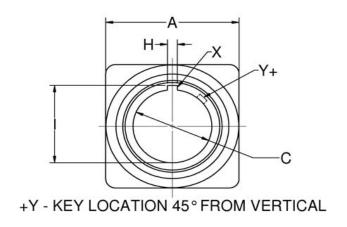
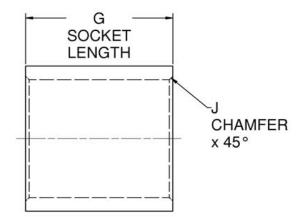
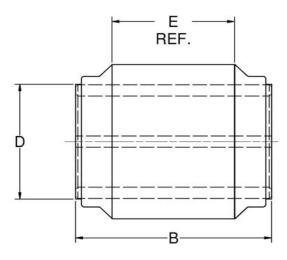
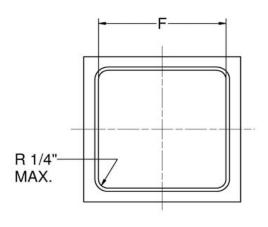


Figure 2 - Installation View







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INSTALLATION GUIDE - BUSHINGS



Installation Guide

Center-Bonded Bushing With Outer Member

Clamp or press-fit the outer member into a socket which has been machined to the dimensions shown on Center-Bonded Bushings with Outer Member - Table 1. The force required to install the joint in the socket with a press-fit can be approximated from the formula:

Force (lb) = $2500 \times diameter \times length$

The inner member is normally attached by clamping or bolting its extended ends to a mounting bracket. An alternate method would be to press-fit a shaft through the inner tube.

Center-Bonded Bushing Without Outer Member

Since the outer part of this type joint is the flexing element, it must be compressed and inserted directly into a socket which has been machined to the dimensions shown on Center-Bonded Bushings without Outer Member - Table 3. This is done with the aid of a funnelshaped fixture and a suitable lubricant: P-80 Rubber Emulsion Lubricant made by International Products Corporation; P. O. Box 70; Burlington, NJ 08016-0070; Phone: (609) 386-8770; Fax: (609) 386-8438.

The inner member attachment is accomplished in the same manner as described above for the joint with outer member.

Square-Bonded Bushings

Joints may be installed in preformed sockets machined, cast or fabricated to dimensions as shown in Square-Bonded Bushings - Table 1.

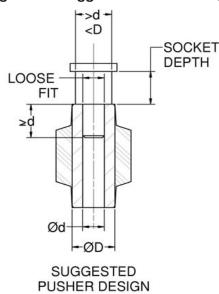
Installation is a simple, four-step procedure:

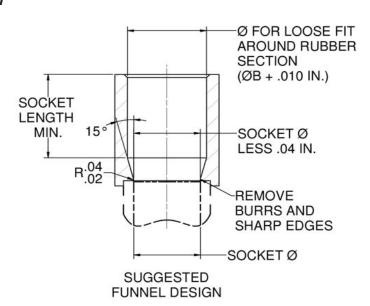
- 1. Lubricate the mount and socket lightly with P-80 Rubber Emulsion Lubricant or water. Lubricant available from International Products Corporation; P. O. Box 70; Burlington, NJ 08016-0070; Phone: (609) 386-8770; Fax: (609) 386-8438.
- 2. Insert assembly fixture or driving bolt through center member. Take care that driving members do not overhang center member outside diameter or damage may result to the elastomer.
- 3. Apply sufficient pressure to seat the joint in the center of the supporting socket.
- 4. Attach the supported member snug against the center member.

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Figure 1 - Suggested Funnel Design





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	Gronne Loud	lots blutete	Jims Pluefor	Heavy D	uty Multi-Pl	Center Center	Bonded N	Series CB-180	geries (BA seri	CBA-50	şeje ^ş SIA şeji	s Safelied	tube form	s Hystect	Moi
Actuators	Cton. Stuto.	Plate	Maje	Hean,	Multi	Centra	(B.),	(B.),	(Bh s.	(Bly.)	SIASE	Safer	Contra	HAZ	-Two
Cabs				•			•	•	•	•	•	•	•	•	
Computer & Accessories	•		•		•										
Covneyors				•											
Delicate Equipment	•		•		•										
Drive Lines															
Electronics	•		•		•										
Engines			•	•			•	•	•	•	•	•	•	•	
Engine Gen/Pumps sets			•	•			•	•	•	•	•	•	•		
Fans/Blowers	•		•	•	•		•	•	•	•		•	•		
Heating/Cooling Units			•	•	•		•	•	•	•					
Instruments & Gauges	•		•		•										
Machinery - Punch, Printing, Milling, Presses			•	•			•	•	•	•		•			
Motors Electric	•		•	•	•		•	•	•	•			•		
Pumps. Compressors			•	•	•		•	•	•	•	•	•	•	•	
Shakers/Vibrators							•	•	•	•		•			
Vehicle Accessories	•		•	•	•		•	•	•	•	•	•	•	•	
Shipping Containers															

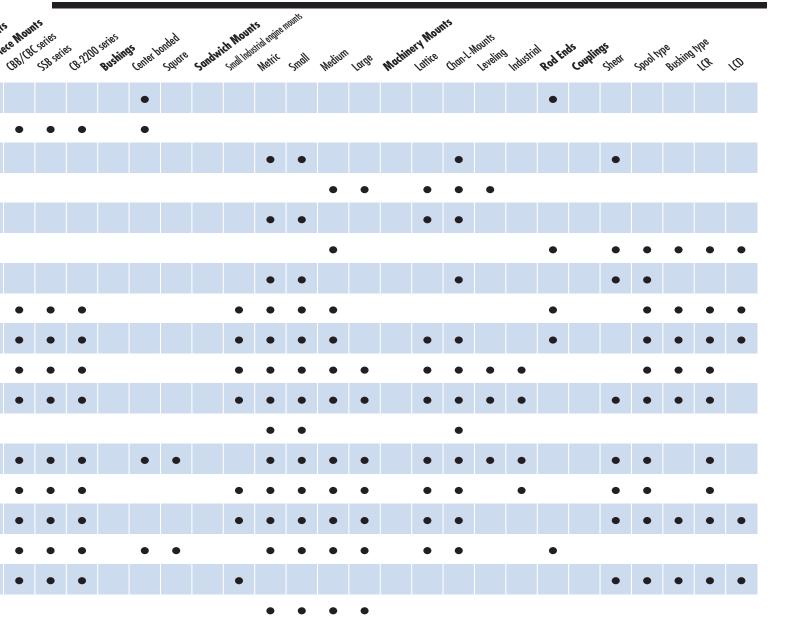
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APPLICATION SELECTION GUIDE



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