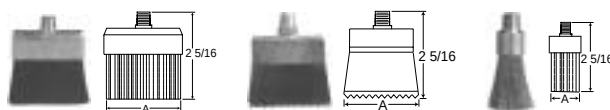


BRUSH APPLICATORS

Brush Type – 1/8" NPT Connection



Even-Flo

Ever-Last

Round

Even-Flo®

Contains internal reservoir to allow uniform dispensing of oil for chain lubricants that include graphite or molybdenum.

Ever-Last®

Ordinary shears may be used to trim brush to fit the exact size of the chain and eliminate uneven wear of the applicator or side dripping of the lubricant. Four part construction using a neoprene cover and felt plate. The mechanical motion of the chain sets up a pumping action in the applicator.

Round

Used in applications requiring broad contact surfaces for lubricating and cleaning.

Cat. No.	Type	Bristle Type	A	Price Each
TMC-36051	Even-Flo	Nylon	2	18.72
TMC-36036	Ever-last	Neoprene/Felt	2	16.85
TMC-36039	Round	Nylon	5/8	13.10
TMC-36045	Round	Nylon	1	18.72

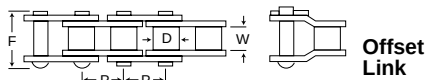
ROLLER CHAIN

ANSI Standard



Standard steel roller chain. Available in ten foot lengths. Each ten foot length comes with one connecting link. Chains can be made to any length by splicing together with connector links. Connecting links are used to join chains with even number of links. Offset links are used to join chains with odd number of links, connecting a roller link to a connecting link. Other types and materials of chain available as special order. Please call for price and delivery.

Single Strand Roller Chain



Chain Cat. No.	ANSI Standard	P	W	D	F	Tensile Strength	Price/10 ft. Lgth.	Connecting Link Cat. No.	Price Each	Offset Link Cat. No.	Price Each
DD-35*	35	3/8	3/16	.200	.515	2,530	24.36	DD-35CL	.60	DD-35HL	1.19
DD-40	40	1/2	5/16	.312	.693	4,290	27.71	DD-40CL	.60	DD-40HL	1.38
DD-50	50	5/8	3/8	.400	.862	7,040	35.52	DD-50CL	.72	DD-50HL	1.72
DD-60	60	3/4	1/2	.469	1.059	9,900	48.92	DD-60CL	.89	DD-60HL	2.23
DD-80	80	1	5/8	.625	1.390	17,600	91.33	DD-80CL	1.54	DD-80HL	4.05

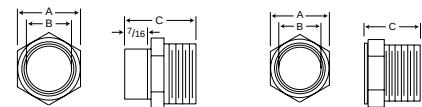
*Rollerless chain "D" dimension is bushing diameter.



3D Plastic



Glass



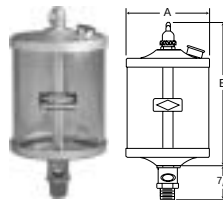
Brass Cat. No.	NPT Size	A	B	C	Price Each Brass	Steel Cat. No.	Brass Cat. No.	NPT Size	A	B	C	Price Each Steel	Brass
3D Plastic Window													
TMC-230	1/2	7/8	1/2	1 1/32	7.07	TMC-305	TMC-341	1/2	7/8	1/2	1 3/32	8.11	7.07
TMC-231	3/4	1 1/8	3/4	1 9/16	8.11	TMC-306	TMC-342	3/4	1 1/8	3/4	1 1/8	9.78	8.74
TMC-232	1	1 5/16	1	1 11/16	10.82	—	TMC-343	1	1 5/16	1	1 1/4	—	11.02
Glass Window With Baffle													
—	1/2	7/8	1/2	1 3/32	—	TMC-351	TMC-352	1/2	7/8	1/2	1 3/32	—	5.41
—	3/4	1 1/8	3/4	1 1/8	—	TMC-321	TMC-352	3/4	1 1/8	3/4	1 1/8	8.11	6.86
—	1	1 5/16	1	1 1/4	—	TMC-353	—	1	1 5/16	1	1 1/4	—	9.15

REID TOOL SUPPLY COMPANY



GRAVITY FEED OILERS

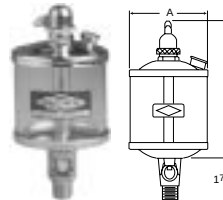
"Atlas" Large Capacity



Used in heavy duty applications where a large oil capacity and a preadjusted rate of oil is required. Silver brazed construction of the reinforced brass assembly provides long life in high vibration applications. The "Atlas" oiler is adjustable for varying rates of oil used in bearing or machinery lubrication. The adjustable drip rates are easily set and controlled with either a lock ring or ratchet mechanism. Heavy wall acrylic reservoir operates continuously in temperatures up to 165° F. Three position toggle switch provides easy to use on-off control, and a flushing option to avoid dry start-ups. Direct mounting with NPT threads or remote mounting with 3/4-16 mounting stud and 1/4" space tubing. Gaskets are Buna-N.

Cat. No.	Capacity	Connection (NPT)	A	B	Price Each
TMC-31416	1 Pt.	3/8	3 5/8	6 9/16	70.10
TMC-31480	2.5 Qt.	1/2	5 1/4	9 3/4	128.13

"KG" Model



"KG" gravity feed oilers are designed for heavy-duty, high temperature lubricating applications. The rate of oil feed is adjustable and a lock ring maintains the setting. Ideal for bearing or gear lubrication. Three position toggle switch provides easy to use on-off control, and a flushing option to avoid dry start-ups. Heavy wall heat resistant glass reservoir and oil sight operate continuously up to 250°F. Vented sight chamber ensures proper operation when used with tight or high speed bearings. Copper brazing of all steel connections provides long life and leak proof design. Made of heavy gauge nickel plated steel. Gaskets are Buna-N.

Cat. No.	Capacity Oz.	Connection (NPT)	A	B	Price Each
TMC-37011	1	3/8	1 5/8	3 3/4	27.25
TMC-37012	1	1/4	1 5/8	3 3/4	27.25
TMC-37013	2.5	3/8	2 1/8	4	30.16
TMC-37014	2.5	1/4	2 1/8	4	30.16
TMC-37016	5	1/4	2 5/8	4 5/8	43.06

MASTER LINK CHAIN PLIERS



These pliers are designed to aid in the removal of the master links on roller chain, and as an aid when reinstalling the link. Quickly removes spring clips and keeper plates. Pulls chain together so master link can be installed. Instruction sheets are included.

Cat. No.	Length	Use With Chain Sizes	Price Each
Z-51	6 1/2	35, 40, 41	20.00
Z-52	8	35-80	22.00

VIEWPORTS

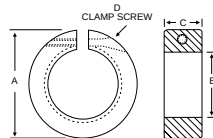
Line viewports allow the viewing of line liquid levels in various applications. Available in either brass or zinc plated steel. Available in 3D plastic or glass. The 3D plastic allows angular viewing without distortion. The glass type are available with or without a baffle. The baffles make it easier to view the oil level and also dampen fluid movement in some applications.



SHAFT COLLARS

One and Two Piece Inch and Metric

These collars offer full radial holding power without marring the shaft. Two piece design allows for installation without disassembling equipment. Metric dimensions are shown in millimeters. See pages 332 and «X,2,CTC-400» for other shaft collars.



One Piece Cat. No.	Two Piece Cat. No.	A	B	C	Clamp Screw D	Price Each	
						One Piece	Two Piece
Steel - Inch							
CTC-2	—	1/2	1/8	1/4	4-40	3.91	—
CTC-4	CTC-104	5/8	3/16	5/16	4-40	2.06	3.97
CTC-6	CTC-106	15/16	1/4	5/16	4-40	1.96	3.86
CTC-8	CTC-108	15/16	5/16	5/16	4-40	1.96	3.86
CTC-10	CTC-110	7/8	3/8	11/32	6-32	2.16	4.02
CTC-12	CTC-112	15/16	7/16	3/8	6-32	2.32	4.17
CTC-14	CTC-114	1 1/8	1/2	13/32	8-32	2.47	3.97
CTC-16	CTC-116	1 1/4	9/16	7/16	10-32	3.19	4.94
CTC-18	CTC-118	1 1/2	5/8	7/16	10-32	2.88	4.43
CTC-20	CTC-120	1 5/8	11/16	7/16	10-32	3.45	5.30
CTC-22	CTC-122	1 3/4	3/4	1/2	1/4-28	3.30	5.00
CTC-24	CTC-124	1 5/8	13/16	1/2	1/4-28	3.81	5.01
CTC-26	CTC-126	1 5/8	7/8	1/2	1/4-28	4.63	5.61
CTC-28	CTC-128	1 3/4	15/16	1/2	1/4-28	4.27	6.03
CTC-30	CTC-130	1 3/4	1	1/2	1/4-28	3.91	5.56
CTC-32	CTC-132	1 7/8	1 1/16	1/2	1/4-28	4.63	7.06
CTC-34	CTC-134	1 7/8	1 1/8	1/2	1/4-28	4.53	6.80
CTC-36	CTC-136	2 1/16	1 1/16	1/2	1/4-28	5.41	7.42
CTC-38	CTC-138	2 1/16	1 1/4	1/2	1/4-28	5.00	6.85
CTC-40	CTC-140	2 1/8	1 1/2	1/2	1/4-28	6.18	8.50
CTC-42	CTC-142	2 1/4	1 3/8	1/2	1/4-28	6.03	8.50
CTC-44	CTC-144	2 1/4	1 7/16	1/2	1/4-28	5.77	8.50
CTC-46	CTC-146	2 3/8	1 1/2	1/2	1/4-28	6.49	8.81
CTC-48	CTC-148	2 3/8	1 1/16	1/2	1/4-28	6.75	8.42
CTC-50	CTC-150	2 3/8	1 1/8	1 1/16	1/4-28	11.23	13.34
CTC-52	CTC-152	2 3/4	1 11/16	1 1/16	1/4-28	12.31	15.04
CTC-54	CTC-154	2 3/4	1 3/4	1 1/16	1/4-28	11.43	14.01
CTC-56	CTC-156	2 7/8	1 13/16	1 1/16	1/4-28	—	14.01
CTC-58	CTC-158	2 7/8	1 7/8	1 1/16	1/4-28	12.93	15.19
CTC-60	CTC-160	3	1 15/16	1 1/16	1/4-28	12.77	15.55
CTC-62	CTC-162	3	2	1 1/16	1/4-28	12.36	15.55
CTC-64	CTC-164	3 1/4	2 1/8	3/4	1/4-28	12.66	15.74
CTC-66	CTC-166	3 1/4	2 1/16	3/4	1/4-28	14.94	18.90
CTC-68	CTC-168	3 1/4	2 1/4	3/4	1/4-28	15.24	18.90
CTC-70	CTC-170	3 1/2	2 3/8	3/4	1/4-28	16.12	19.42
CTC-72	CTC-172	3 1/2	2 1/16	3/4	1/4-28	16.12	19.42
CTC-74	CTC-174	3 3/4	2 1/2	3/4	3/8-24	28.38	38.57
—	CTC-176	3 3/8	2 5/8	3/4	3/8-24	—	31.18
—	CTC-177	4	2 11/16	3/4	3/8-24	—	31.21
CTC-78	CTC-178	4	2 3/4	3/4	3/8-24	31.31	41.41
—	CTC-179	4 1/4	2 13/16	3/4	3/8-24	—	36.39
CTC-80	CTC-180	4 1/4	2 7/8	3/4	3/8-24	31.78	34.06
CTC-82	CTC-182	4 1/4	2 15/16	3/4	3/8-24	31.78	41.82
CTC-84	CTC-184	4 1/4	3	3/4	3/8-24	31.78	41.82
—	CTC-185	4 1/2	3 1/16	3/4	3/8-24	—	44.45
CTC-88	CTC-188	4 3/4	3 7/16	3/4	3/8-24	35.94	47.86
Stainless Steel - Inch							
CTC-2SS	—	1/2	1/8	1/4	4-40	7.31	—
CTC-4SS	—	5/8	3/16	5/16	4-40	5.05	—
CTC-6SS	CTC-106SS	1 1/16	1/4	5/16	4-40	4.84	7.62
CTC-8SS	—	1 1/16	5/16	5/16	4-40	4.84	—
CTC-10SS	CTC-110SS	7/8	3/8	1 1/32	6-32	5.36	8.50
CTC-12SS	CTC-112SS	1 5/16	7/16	3/8	6-32	6.28	9.37
—	CTC-114SS	1 1/8	1/2	1 3/32	8-32	—	9.84
—	CTC-116SS	1 1/4	9/16	7/16	10-32	—	12.05
CTC-18SS	CTC-118SS	1 1/2	5/8	7/16	10-32	—	11.64
CTC-19SS	—	1 3/8	1 1/16	7/16	10-32	9.45	—
CTC-22SS	CTC-122SS	1 1/2	3/4	1/2	1/4-28	10.20	14.47
CTC-26SS	CTC-126SS	1 5/8	7/8	1/2	1/4-28	12.36	16.22
—	CTC-127SS	1 3/4	1 1/16	1/2	1/4-28	—	16.30
CTC-30SS	CTC-130SS	1 3/4	1	1/2	1/4-28	12.67	15.66
—	CTC-131SS	1 7/8	1 1/16	1/2	1/4-28	—	16.48
CTC-34SS	CTC-134SS	1 1/8	1 1/8	1/2	1/4-28	15.45	19.78
CTC-38SS	CTC-138SS	2 1/16	1 1/4	1/2	1/4-28	17.10	21.12
—	CTC-139SS	2 1/8	1 1/16	1/2	1/4-28	—	22.76
—	CTC-142SS	2 1/4	1 1/8	1/2	1/4-28	—	27.66
CTC-46SS	CTC-146SS	2 3/8	1 1/2	1/2	1/4-28	23.54	28.48
—	CTC-147SS	2 3/8	1 1/16	1/2	1/4-28	—	28.84
CTC-62SS	CTC-162SS	3	2	1 1/16	5/16-24	40.43	45.53
Aluminum - Inch							
CTC-6A	—	1 1/16	1/4	5/16	4-40	2.06	—
CTC-10A	CTC-110A	7/8	3/8	1 1/32	6-32	2.21	3.75
CTC-12A	—	1 5/16	7/16	3/8	6-32	2.52	—
CTC-14A	CTC-114A	1 1/8	1/2	1 3/32	8-32	2.47	4.53
CTC-18A	CTC-118A	1 1/4	9/8	7/16	10-32	2.83	4.03
CTC-22A	CTC-122A	1 1/2	5/8	7/16	10-32	3.04	5.77
CTC-26A	CTC-126A	1 5/8	7/8	1/2	1/4-28	3.97	5.08
CTC-30A	CTC-130A	1 3/4	1	1/2	1/4-28	3.81	6.39
—	CTC-131A	1 7/8	1 1/16	1/2	1/4-28	—	6.18
CTC-32A	CTC-132A	1 7/8	1 1/8	1/2	1/4-28	4.57	6.18
CTC-33A	—	2 1/16	1 1/16	1/2	1/4-28	4.83	—
CTC-38A	CTC-138A	2 1/16	1 1/4	1/2	1/4-28	5.30	7.52
CTC-39A	—	2 1/8	1 1/16	1/2	1/4-28	6.18	—
CTC-40A	—	2 1/4	1 1/8	1/2	1/4-28	6.18	—
CTC-46A	CTC-146A	2 3/8	1 1/2	1/2	1/4-28	6.80	9.68
CTC-48A	—	2 5/8	1 5/8	1 1/16	5/16-24	15.36	—
CTC-54A	CTC-154A	2 3/4	1 3/4	1 1/16	5/16-24	12.10	22.21
CTC-62A	CTC-162A	3	2	1 1/16	5/16-24	15.09	18.03

One Piece Cat. No.	Two Piece Cat. No.	A	B	C	Clamp Screw D	Price Each	
						One Piece	Two Piece
Steel - Metric							
CTC-700	CTC-800	16	3	9	M3x8	2.44	4.63
CTC-701	CTC-801	16	5	9	M3x8	2.44	4.38
CTC-702	CTC-802	16	6	9	M3x8	2.31	4.38
CTC-703	CTC-803	18	8	9	M3x8	2.44	4.50
CTC-704	CTC-804	24	9	9	M3x10	2.57	4.63
CTC-705	CTC-805	24	10	9	M3x10	2.70	4.88
CTC-706	CTC-806	28	12	11	M4x12	2.83	4.88
CTC-707	CTC-807	34	15	13	M5x16	3.47	5.25
CTC-708	CTC-808	34	16	13	M5x16	3.60	5.63
CTC-709	CTC-809	38	17	13	M5x16	3.73	5.75
CTC-710	CTC-810	36	18	13	M5x16	3.99	6.00
CTC-711	CTC-811	40	20	15	M6x16	4.37	6.63
CTC-712	CTC-812	45	25	15	M6x16	4.50	6.88
CTC-713	CTC-813	54	30	15	M6x18	6.17	8.75
CTC-714	CTC-814	57	35	15	M6x18	7.07	9.88
CTC-715	CTC-815	60	40	15	M6x18	8.23	10.50
CTC-716	CTC-816	73	45	19	M6x18	13.50	16.25
CTC-717	CTC-817	78	50	19	M8x25	15.30	16.88
CTC-718	CTC-818	82	55	19	M8x25	16.71	19.50
CTC-719	CTC-819	88	60	19	M8x25	19.29	21.25
CTC-720	CTC-820	93	65	19	M8x25	27.00	31.88
CTC-721	CTC-821	98	70	19	M8x25	27.64	32.38
CTC-722	CTC-822	103	75	19	M8x25	29.57	38.75
CTC-723	CTC-823	108	80	19	M8x25	38.57	43.75

RULAND SHAFT COUPLINGS

Flexbeam™



Clamp Style



Set Screw Style

Flexbeam zero-backlash flexible couplings are machined from a single piece of aluminum and feature two sets of spiral cuts. The multiple cut design provides higher torque capabilities and greatly reduced wind-up compared to commodity type single beam couplings. The Flexbeam design provides superior parallel misalignment capabilities as well as angular misalignment, axial motion or any combination of all three. The clamp style also has the additional benefit of dynamic balancing due to the unique configuration of the socket head cap screws. The Flexbeam-3 couplings are ideal for light duty power transmission applications. These couplings feature larger body sizes and stronger beams to provide high torque

capacity and very low wind-up, while not sacrificing misalignment capabilities. Flexbeam-2 couplings are designed specifically for precision applications such as encoders and tachometers. Flexbeam-2 provides extra flexibility to yield reduced bearing loads, and shorter industry standard lengths to fit in confined spaces and allow for easy retrofits in existing equipment. All Flexbeams handle up to 3 degrees of angular misalignment. **See pages 333, and 335 for other shaft couplings.**

Flex Beam-3 Couplings

Clamp Style Cat. No.	Set Screw Cat. No.	Bore 1	Bore 2	OD	Length	Clamp Style Cap Screw	Set Screw Style	Shaft Penetration	Static Torque Lb-in*	Wind Up Degree Lb-in	Parallel Misalignment	Axial Motion	Price Each	
													Clamp Style	Set Screw
CC-21	CC-41	1/4	3/16	.75	1.25	4-40	8-32	.561	26	.152	.008	.005	24.85	21.42
CC-22	CC-42	1/4	1/4	.75	1.25	4-40	8-32	.561	26	.152	.008	.005	24.85	21.42
CC-23	CC-43	1/4	1/4	1.00	1.50	6-32	10-32	.670	35	.064	.015	.010	29.93	25.42
CC-24	CC-44	5/16	5/16	1.00	1.50	6-32	10-32	.670	33	.093	.015	.010	29.93	25.42
CC-25	CC-45	3/8	1/4	1.00	1.50	6-32	10-32	.670	33	.093	.015	.010	29.93	25.42
CC-26	CC-46	3/8	3/8	1.00	1.50	6-32	10-32	.670	33	.093	.015	.010	29.93	25.42
CC-27	CC-47	3/8	3/8	1.25	1.75	10-32	1/4-20	.795	61	.048	.015	.010	44.30	37.12
CC-28	CC-48	1/2	3/8	1.25	1.75	10-32	1/4-20	.795	61	.048	.015	.010	44.30	37.12
CC-29	CC-49	1/2	1/2	1.25	1.75	10-32	1/4-20	.795	61	.048	.015	.010	44.30	37.12
CC-30	CC-50	1/2	3/8	1.50	2.25	10-32	1/4-20	1.025	110	.029	.030	.015	58.70	47.12
CC-31	CC-51	1/2	1/2	1.50	2.25	10-32	1/4-20	1.025	110	.029	.030	.015	58.70	47.12
CC-32	CC-52	5/8	3/8	1.50	2.25	10-32	1/4-20	1.025	95	.043	.030	.015	58.70	47.12
CC-33	—	5/8	1/2	1.50	2.25	10-32	1/4-20	1.025	95	.043	.030	.015	55.42	—
CC-34	CC-54	5/8	5/8	1.50	2.25	10-32	1/4-20	1.025	95	.043	.030	.015	55.42	47.12
CC-35	CC-55	3/4	1/2	1.50	2.25	10-32	1/4-20	1.025	80	.063	.030	.015	55.42	47.12
CC-36	CC-56	3/4	5/8	1.50	2.25	10-32	1/4-20	1.025	80	.063	.030	.015	55.42	47.12
CC-37	CC-57	3/4	3/4	1.50	2.25	10-32	1/4-20	1.025	80	.063	.030	.015	55.42	47.12

*At maximum misalignment.

Flex Beam-2 Couplings

Clamp Style Cat. No.	Set Screw Cat. No.	Bore 1	Bore 2	OD	Length	Clamp Style Cap Screw	Set Screw Style	Shaft Penetration	Static Torque Lb-in*	Wind Up Degree Lb-in	Parallel Misalignment	Axial Motion	Price Each	
													Clamp Style	Set Screw
CC-61	CC-81	1/8	1/8	.50	.75	1-72	2-56	.265	8	.75	.008	.005	22.42	19.06
CC-62	—	3/16	1/8	.75	.90	4-40	6-32	.386	17	.26	.008	.005	24.50	—
CC-63	CC-83	3/16	3/16	.75	.90	4-40	6-32	.386	17	.26	.008	.005	24.50	20.84
CC-64	CC-84	1/4	3/16	.75	.90	4-40	6-32	.386	17	.33	.008	.005	22.37	19.02
CC-65	CC-85	1/4	1/4	.75	.90	4-40	6-32	.386	17	.33	.008	.005	22.37	19.02
CC-66	CC-86	1/4	1/4	1.00	1.25	6-32	10-32	.545	36	.16	.015	.010	28.93	24.59
CC-67	CC-87	3/8	1/4	1.00	1.25	6-32	10-32	.545	30	.20	.015	.010	26.95	22.90
CC-68	CC-88	3/8	3/8	1.00	1.25	6-32	10-32	.545	30	.20	.015	.010	26.95	22.90
CC-71	CC-91	1/2	3/8	1.25	1.50	6-32	1/4-20	.670	60	.07	.015	.010	39.89	33.90
CC-72	—	1/2	1/2	1.25	1.50	6-32	1/4-20	.670	52	.12	.015	.010	39.89	—

*At maximum misalignment.

Rigid Clamp Style



One Piece

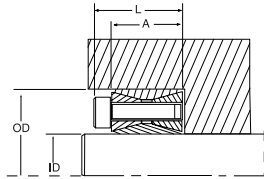


Two Piece

One piece is available in stainless steel, carbon steel or aluminum. Two piece is available in steel. All are available with or without a keyway. Clamp screws are forged and treated with an antivibration coating to keep them from loosening. **See page 333, and 335 for other shaft couplings.**

Bore A	Keyway A	Bore B	Keyway B	Length	OD	One Piece Aluminum Without Keyway		One Piece Steel With Keyway		One Piece Steel Without Keyway		One Piece Stainless Steel With Keyway		One Piece Stainless Steel Without Keyway		Two Piece Steel With Keyway		Two Piece Steel Without Keyway	
						Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
.250	—	.250	—	1	3/8	CC-11	0.00	—	—	CC-301	0.00	—	—	CC-701	0.00	—	—	—	—
.375	3/32	.250	—	1 1/8	7/8	—	—	—	—	CC-302	0.00	—	—	—	—	—	—	—	—
.375	3/32	.375	3/32	1 3/8	7/8	CC-13	0.00	CC-103	0.00	CC-303	0.00	CC-603	0.00	CC-703	0.00	CC-403	0.00	CC-503	0.00
.500	1/8	.375	3/32	1 3/4	1 1/8	CC-14	0.00	—	—	CC-304	0.00	—	—	CC-704	0.00	CC-404	0.00	CC-504	0.00
.500	1/8	.500	1/8	1 3/4	1 1/8	CC-15	0.00	CC-105	0.00	CC-305	0.00	CC-605	0.00	CC-705	0.00	CC-405	0.00	CC-505	0.00
.625	3/16	.500	1/8	2	1 1/8	—	—	—	—	CC-306	0.00	—	—	CC-706	0.00	CC-406	0.00	CC-506	0.00
.625	3/16	.625	3/16	2	1 1/8	—	—	CC-107	0.00	CC-307	0.00	—	—	CC-707	0.00	CC-407	0.00	CC-507	0.00
.750	3/16	.625	3/16	2 1/4	1 1/2	—	—	—	—	CC-309	0.00	—	—	—	—	CC-409	0.00	—	—
.750	3/16	.750	3/16	2 1/4	1 1/2	—	—	CC-110	0.00	CC-310	0.00	CC-610	0.00	CC-710	0.00	CC-410	0.00	CC-510	0.00
.875	3/16	.875	3/16	2 1/2	1 5/8	—	—	CC-112	0.00	CC-312	0.00	—	—	—	—	CC-412	0.00	—	—
1.000	1/4	.500	1/8	3	1 3/4	—	—	—	—	CC-313	0.00	—	—	—	—	—	—	—	—
1.000	1/4	.750	3/16	3	1 3/4	—	—	—	—	—	—	—	—	—	—	CC-414	0.00	—	—
1.000	1/4	1.000	1/4	3	1 3/4	—	—	CC-115	0.00	CC-315	0.00	—	—	—	—	CC-415	0.00	CC-515	0.00
1.125	1/4	1.125	1/4	3 3/8	1 7/8	—	—	CC-116	0.00	—	—	CC-616	0.00	—	—	CC-416	0.00	—	—
1.250	1/4	1.250	1/4	3 3/4	2 1/8	—	—	CC-119	0.00	CC-319	0.00	CC-619	0.00	—	—	CC-419	0.00	CC-519	0.00
1.500	3/8	1.500	3/8	3 3/8	2 3/8	—	—	CC-123	0.00	CC-323	0.00	—	—	—	—	CC-423	0.00	CC-523	0.00

RULAND HUBLOK™ CLAMPING DEVICES



Ruland Hublok™ clamping devices are an ideal way to attach components such as gears, sprockets, and pulleys to shafts when high amounts of torque will be transmitted and a keyway is not desired. Accommodates large shaft and hub tolerances. Not self centering. Made of alloy steel with a black oxide finish for smooth torquing, holding power and surface protection.

Cat. No.	ID	ID Tolerance	OD	OD Tolerance	A	L	Torque Rating Ft-Lb.	Axial Load Lb.	Pressure		Cap Screw Size	Seating Torque In-Lb.	Price Each
									Shaft psi	Hub psi			
CC-212	.750	+0.000/-0.020	1.850	+0.020/-0.0000	.787	1.083	202	6,295	32,010	13,520	M6	132	36.62
CC-216	1.000	+0.000/-0.020	1.969	+0.020/-0.0000	.787	1.083	258	6,295	28,450	14,230	M6	132	36.78
CC-218	1.125	+0.000/-0.025	2.165	+0.025/-0.0000	.787	1.083	361	8,100	28,450	17,114	M6	132	38.10
CC-219	1.188	+0.000/-0.025	2.159	+0.025/-0.0000	.787	1.083	383	8,100	26,320	17,114	M6	132	38.42
CC-220	1.250	+0.000/-0.025	2.382	+0.025/-0.0000	.787	1.083	490	9,442	29,170	15,954	M6	132	40.87
CC-222	1.375	+0.000/-0.025	2.365	+0.025/-0.0000	.787	1.083	538	9,442	27,030	15,954	M6	132	41.69
CC-223	1.438	+0.000/-0.025	2.559	+0.025/-0.0000	.787	1.083	672	11,025	28,450	18,130	M6	132	46.27
CC-224	1.500	+0.000/-0.025	2.559	+0.025/-0.0000	.787	1.083	709	11,025	27,030	18,130	M6	132	46.27
CC-228	1.750	+0.000/-0.025	2.953	+0.025/-0.0000	.945	1.319	1,230	17,085	31,300	20,305	M8	324	52.00
CC-231	1.938	+0.000/-0.025	3.150	+0.025/-0.0000	.945	1.319	1,353	16,875	28,450	18,855	M8	324	53.20
CC-232	2.000	+0.000/-0.025	3.346	+0.025/-0.0000	.945	1.319	1,597	16,875	32,300	21,756	M8	324	56.16
CC-236	2.250	+0.000/-0.030	3.543	+0.030/-0.0000	.945	1.319	1,798	19,800	28,450	20,305	M8	324	60.32
CC-239	2.438	+0.000/-0.030	3.740	+0.030/-0.0000	.945	1.319	2,212	19,800	29,880	19,210	M8	324	66.03
CC-240	2.500	+0.000/-0.030	3.740	+0.030/-0.0000	.945	1.319	2,269	19,800	29,170	19,210	M8	324	66.32
CC-244	2.750	+0.000/-0.030	4.337	+0.030/-0.0000	1.102	1.555	3,328	29,700	29,880	23,205	M10	612	90.25
CC-247	2.938	+0.000/-0.030	4.528	+0.030/-0.0000	1.102	1.555	3,545	29,475	27,740	21,756	M10	612	95.46
CC-248	3.000	+0.000/-0.030	4.724	+0.030/-0.0000	1.102	1.555	3,581	29,475	27,030	20,305	M10	612	96.28

GRIP FAST™ SELF LOCKING COLLARS

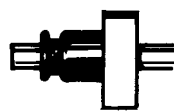
Locks Automatically Without Tools



Great for quick change over and quick adjustments, these self locking collars slide on in one direction and lock automatically. No tools are necessary for installation or removal. The ball bearings jam themselves between the inner metal ring and the shaft allowing up to 500 lbs. of axial holding power (based on cold rolled drawn steel). For harder shafts, call for special modifications. The outer body of the steel self locking collars is made of tough ABS plastic. The all stainless type are made from 304 stainless. All collars are designed to fit shaft tolerances of $\pm .020$ ". Custom design and metric sizes are available as special order. Please call for price and delivery.



Slide collar on



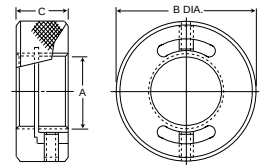
Automatically locks in position



Releases by pulling on outer ring and slide off

Cat. No.	Bore Size	O.D.	Length (Max.)	Price Each 1-9
Steel With ABS Plastic Outer Body				
SMI-187	3/16	.558	.94	11.38
SMI-250	1/4	.743	1.010	11.38
SMI-312	5/16	.743	1.010	11.38
SMI-375	3/8	1.107	1.045	8.82
SMI-500	1/2	1.107	1.045	10.08
SMI-562	5/8	1.400	1.460	10.92
SMI-620	3/4	1.400	1.460	11.75
SMI-750	1	1.400	1.460	12.58
SMI-875	1 1/8	1.860	2.000	15.25
SMI-1000	1 1/4	1.860	2.000	15.25
SMI-1062	1 1/2	1.860	2.000	15.75
SMI-1250	1 3/4	2.165	1.825	16.65
SMI-1500	2	2.165	1.825	19.37
SMI-2000	2 1/2	2.725	2.070	27.03
SMI-3000	3	3.775	1.980	102.38
All Stainless Steel				
SMI-250SS	3/16	.750	1.00	49.40
SMI-312SS	5/16	.750	1.00	49.40
SMI-375SS	3/8	1.125	1.10	43.68
SMI-500SS	1/2	1.125	1.10	49.92
SMI-625SS	5/8	1.400	1.50	58.24
SMI-750SS	3/4	1.400	1.50	62.40
SMI-1000SS	1	1.875	2.00	76.44
SMI-1500SS	1 1/2	2.200	2.00	95.94

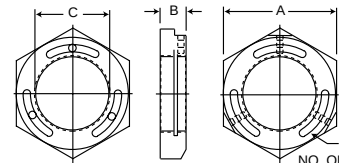
LOCKING THREADED COLLARS



By applying torque to the locking screws, a press fit effect is created locking the female threads of the collar to the male thread of the shaft. Produces a strong metal to metal thread. The locking set screws do not protrude through the threads of the locknut, eliminating damage to the thread. Other sizes available as special order. Please call for price and delivery.

Cat. No.	A	B	C	Price Each 1-9	Cat. No.	A	B	C	Price Each 1-9
BLN-320	5/8-18	1 1/16	7/16	53.18	BLN-330	3/4-16	1 1/2	1/2	56.54
BLN-325	3/4-10	1 1/2	1/2	56.54	BLN-380	1 1/8-12	2 1/4	5/8	76.18

LOCKING HEX NUTS



NO. OF SLOTS

Face Lock

Peripheral Lock

By applying torque to the locking screw, a press fit or wave spring effect is created locking the female threads of the locknut to the male threads of the shaft. Produces a strong metal to metal lock. The locking set screws do not protrude through the face of the threads of the locknut, eliminating damage to the shaft or other surface. Other sizes available as special order. Please call for price and delivery.

Face Lock Cat. No.	Peripheral Lock Cat. No.	A	B	C	D	Price Each 1-9
—	BLN-160	1 1/16	.340	7/16-20	2	22.82
—	BLN-165	1	.359	1/2-20	2	24.55
—	BLN-170	1 1/8	.359	5/8-18	2	25.64
—	BLN-175	1 1/4	.422	3/4-16	3	29.27
BLN-105	—	1 1/16	.484	7/8-14	3	34.18
BLN-110	BLN-185	1 3/8	.547	1-14	3	35.18
BLN-115	—	1 7/8	.719	1 1/4-12	3	43.91
BLN-120	BLN-195	2 1/4	.844	1 1/2-12	3	59.55

HINGED SHAFT COLLARS

Steel and Stainless Steel



Hinged construction and a captive clamp screw to simplify assembly. These fully split collars eliminate lost screws and downtime. Hinged collars provide the same axial load handling capabilities as our two piece collars. Both halves are machined from the same stock and then joined together by a heat-treated triple-link hinge. These collars have a smooth ID, OD, and sides with no protruding pins or screws. All steel shaft collars are made of 12L14 or mild steel with black finish. Stainless steel collars are made of 303 stainless. Metric sizes are available as special order. Please call for price and delivery.

Steel Cat. No.	Stainless Cat. No.	Bore Size	Dimensions			Screw	Price Each	
			OD	Width			Steel	Stainless
—	CTC-400SS	.375	1.063	.313	6-32	—	—	23.58
CTC-401	—	.500	1.250	.375	8-32	14.07	—	—
CTC-402	—	.625	1.500	.438	10-32	11.59	—	—
CTC-403	CTC-403SS	.750	1.750	.500	¼-28	13.57	29.42	—
CTC-404	CTC-404SS	.875	1.875	.500	¼-28	15.42	30.86	—
CTC-405	CTC-405SS	1.000	2.000	.500	¼-28	13.85	32.38	—
CTC-406	CTC-406SS	1.125	2.125	.500	¼-28	15.33	51.57	—
CTC-407	—	1.188	2.125	.500	¼-28	15.30	—	—
CTC-408	—	1.250	2.250	.500	¼-28	15.36	—	—
CTC-409	—	1.375	2.375	.500	¼-28	15.88	—	—
CTC-410	CTC-410SS	1.500	2.500	.500	¼-28	18.90	53.22	—
CTC-411	—	1.625	2.750	.625	⅝-24	20.35	—	—
CTC-412	—	1.750	3.000	.625	⅝-24	20.20	—	—
CTC-413	—	2.000	3.250	.625	⅝-24	19.69	—	—
CTC-415	—	2.500	4.000	.750	¾-24	37.78	—	—
CTC-416	—	3.000	4.500	.750	¾-24	39.02	—	—

HEXAGON BORE CLAMP TYPE COLLARS



One-Piece



Two-Piece

Clamp-type shaft collars to fit hexagon shafts. One-piece and two-piece made of steel and stainless steel. They can be modified (drilled, tapped, welded, etc.) to act as a mount for other components. They are non-marring and have high holding power.

One Piece Cat. No.	Two Piece Cat. No.	Hex. Bore	Dimensions			Screw	Price Each	
			ID	OD	Width		One Piece	Two Piece
Steel								
—	CTC-550	¼	.250	.813	.250	4-40	—	15.63
—	CTC-551	⅜	.313	.813	.250	4-40	—	14.13
CTC-502	—	¾	.375	1.063	.313	6-32	13.60	—
CTC-503	CTC-553	½	.500	1.250	.375	8-32	13.79	15.61
—	CTC-554	⅝	.625	1.500	.406	10-32	—	16.26
CTC-505	CTC-555	¾	.750	1.875	.500	¼-28	22.40	24.25
CTC-506	CTC-556	⅞	.875	2.000	.500	¼-28	16.89	18.51
CTC-507	CTC-557	1	1.000	2.125	.500	¼-28	17.71	19.33
Stainless Steel								
—	CTC-650	¼	.250	.813	.250	4-40	—	16.78
CTC-601	—	⅜	.313	.813	.250	4-40	14.14	—
CTC-602	—	¾	.375	1.063	.313	6-32	16.66	—
—	CTC-653	½	.500	1.250	.375	8-32	—	18.90
—	CTC-654	⅝	.625	1.500	.406	10-32	—	23.16
—	CTC-655	¾	.750	1.875	.500	¼-28	—	28.64
—	CTC-657	1	1.000	2.125	.500	¼-28	—	27.77

KEYED SHAFTING

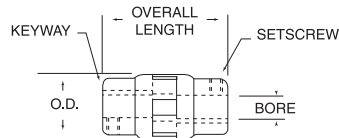


Available in three foot and six foot lengths. C1018 cold drawn steel. Outside diameters are +.000/-0.002". Keyways are +.016/-0.000" on depth and +.002/-0.000" on width. Keyways are cut full length of each bar and are in accordance with ANSI B17.1-1967, R1989.

Three Foot Cat. No.	Six Foot Cat. No.	Diameter	Keyway	Price Each	
				Three Foot	Six Foot
GLH-3005	GLH-6005	½	⅜ X ⅜	22.32	44.64
GLH-3010	GLH-6010	⅝	¾ X ¾	25.74	51.48
GLH-3015	GLH-6015	¾	¾ X ¾	27.90	55.80
GLH-3020	—	⅞	¾ X ¾	35.20	—
GLH-3025	GLH-6025	1	¾ X ¾	38.98	77.96
—	GLH-6030	1 ⅜	¾ X ¾	—	83.72
GLH-3035	GLH-6035	1 ⅜	¾ X ¾	44.56	89.12
GLH-3040	GLH-6040	1 ⅜	¾ X ¾	46.80	93.60
GLH-3042	—	1 ⅜	¾ X ¾	48.78	—
GLH-3045	GLH-6045	1 ⅜	¾ X ¾	50.50	101.00
GLH-3050	GLH-6050	1 ½	¾ X ¾	52.12	104.24

BOSTON GEAR SHAFT COUPLINGS

Three Jaw Type



Complete with keyway and set screw. No lubrication needed. Bored to +.001/-0.000" tolerances. **Must order two coupling halves and one insert of same outside diameter for complete coupling.** Insert types include: Bost-Bronz inserts for high torque loads, particularly at slower speeds, rubber for quietness particularly at motor speeds, polyurethane for moderate to heavy shock loads. **See page 331, and 335 for other shaft couplings.**

Inserts

Outside Diameter	Bost-Bronz Cat. No.	Price Each	Rubber Cat. No.	Price Each	Polyurethane Cat. No.	Price Each
1.25	GE-217	16.75	GE-218	15.07	GE-219	17.23
1.50	GE-227	17.66	GE-228	15.87	GE-229	18.30
2.00	GE-237	22.51	GE-238	20.33	GE-239	22.46
2.50	GE-247	28.32	GE-248	25.57	GE-249	28.09

Coupling Halves

Bore	Overall Length		Cat. No.	Boston	Price Each
	Assembled	Unassembled*		Part No.	
1.25" Outside Diameter					
¾	2.32	3.19	GE-211	FC12-¾	20.77
½	2.32	3.19	GE-213	FC12-½	20.77
1.5" Outside Diameter					
¾	2.76	3.75	GE-221	FC15-¾	25.57
½	2.76	3.75	GE-223	FC15-½	25.57
¾	2.76	3.75	GE-224	FC15-¾	25.57
½	2.76	3.75	GE-225	FC15-½	25.57
2" Outside Diameter					
¾	3.69	4.81	GE-230	FC20-¾	35.50
½	3.69	4.81	GE-232	FC20-½	35.50
¾	3.69	4.81	GE-233	FC20-¾	35.50
½	3.69	4.81	GE-234	FC20-½	35.50
1	3.69	4.81	GE-236	FC20-1	35.50
2.5" Outside Diameter					
¾	4.13	5.38	GE-241	FC25-¾	55.39
½	4.13	5.38	GE-242	FC25-½	55.39
1½	4.13	5.38	GE-244	FC25-1½	55.39
1¼	4.13	5.38	GE-246	FC25-1¼	55.39

*Dimension for assembly clearance.



UNIVERSAL JOINTS

Standard industrial type universal joint with pin and block design. The special tapered

shape of the yokes provide exceptional strength for long life while allowing full free movement of the joint. Boot retainer grooves are standard. Ideal for angles up to 25° and speeds up to 1,750 RPM. The items listed below are in stock for same day shipment, however, we can provide you with hex, splined or other keyway bores as well as stainless, heavy duty, needle bearing and other types of universal joints as special order. Please call for price and delivery.

Bored Cat. No.	Bored w/Keyway Cat. No.	Solid Cat. No.	Bore Depth			Keyway	Static Breaking Torque*	Price Each	
			A	B	D			Bored	Solid
UJ-10	—	UJ-110	¾	⅝	1 ⅜	¾	—	110	22.77
UJ-15	—	UJ-115	½	¼	2	1	—	378	22.77
UJ-20	—	UJ-120	¾	⅝	2 ⅜	1 ⅜	—	540	23.32
UJ-25	UJ-325	UJ-125	¾	¾	2 ⅜	1 ⅜	¾ X ⅜	768	23.32
UJ-30	—	UJ-130	7/8	7/8	3	1 ½	—	1,176	29.39
UJ-35	UJ-335	UJ-135	1	½	1	3/8	1 ⅜	1,560	32.10
UJ-40	UJ-340	UJ-140	1 ¼	¾	1 ⅜	3/8	1 ⅜	5,220	42.73
UJ-45	UJ-345	UJ-145	1 ½	¾	1 ⅜	4/8	1 ⅜	7,920	50.86
UJ-55	UJ-355	UJ-155	2	1	1 ½	5/8	1 ⅜	15,600	87.84
—	UJ-360**	—	2 ½	1 ¼	2	7/8	1 ⅜	33,120	180.02

*Inch-lbs. **Includes set screw
Lovejoy Universal Joint Boots



One
Hump

Multiple
Hump

Extends universal joint life by keeping dirt out and retaining lubrication. Installation is fast and easy. Includes two boots and four plastic ties.

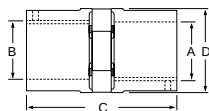
Cat. No.	Use For Joint OD	Price Each	Cat. No.	Use For Joint OD	Price Each
UJ-215	½	12.25	UJ-240	1 ¼	21.69
UJ-225	¾	14.75	UJ-245	1 ½	23.48
UJ-235	1	19.68	—	—	—

MINIATURE FLEXIBLE SHAFT COUPLINGS

Zero Backlash Jaw



Regular



Clamp Style

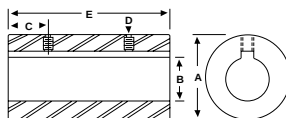
Machined aluminum hubs with 92 durometer "spiders". Designed for fractional and subfractional motors. Absorbs parallel and angular misalignment. Excellent shock dampening and vibration isolation. Cross clamping available for positive shaft lock. Stiffness is in pounds per inch radian. All bores larger than 1/2" have a 3/16" x 5/32" keyway. Other size bores and durometers available for special order. Please call for price and delivery. See pages 331 and 333 for other shaft couplings.

Specifications

Cat. No.	C	D	Set Screws	Cap Screws for Clamp Type	Inertia (In # Sec ²)	Stiffness	Torque
GU-3004, GU-3013, GU-4001 and GU-4013	0.866	0.551	6-32	4-40	1.7 x 10 ⁻⁶	127	20
GU-3101 to 3110 and GU-4101 to 4110	1.18	.0787	8-32	5-40	8.8 x 10 ⁻⁶	279	54
GU-3214 to 3219 and GT-4212 to 4219	1.33	1.18	8-32	6-32	5.3 x 10 ⁻⁵	1,014	130
GU-3318 to 3321 and GU-4317 to 4321	2.6	1.57	10-24	8-32	3.5 x 10 ⁻⁴	3,042	174

Regular Cat. No.	Clamp Style Cat. No.	Bore Size A	Bore Size B	Price Each	
				Regular	Clamp Style
—	GU-4001	1/8	1/8	—	33.00
GU-3004	—	1/8	3/4	21.00	—
GU-3013	GU-4013	1/4	1/4	21.00	41.00
GU-3101	GU-4101	3/16	3/16	23.26	43.26
GU-3102	GU-4102	3/16	1/4	23.26	43.26
GU-3105	GU-4105	1/4	1/4	23.26	43.26
GU-3107	GU-4107	1/4	3/8	23.26	43.26
GU-3108	GU-4108	5/16	5/16	23.26	43.26
GU-3109	GU-4109	5/16	3/8	23.26	43.26
GU-3110	GU-4110	3/8	3/8	23.26	43.26
—	GU-4212	3/8	3/8	—	45.88
GU-3214	GU-4214	3/8	1/2	25.88	45.88
GU-3219	GU-4219	1/2	1/2	25.88	45.88
—	GU-4317	1/2	5/8	—	50.00
GU-3318	GU-4318	1/2	3/4	30.00	50.00
GU-3319	GU-4319	5/8	5/8	30.00	50.00
GU-3320	—	5/8	3/4	29.26	—
GU-3321	GU-4321	3/4	3/4	29.26	50.00

Lovejoy RIGID SLEEVE COUPLINGS

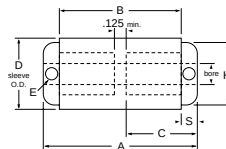


These steel couplings provide a fixed union between two shafts which are precisely aligned. See page 331 for other shaft couplings.

Cat. No.	+0.000 -0.010 A	+0.001 -0.000 B	+/-0.010 C	D	+/-0.015 E	Keyway Size	Price Each
SC-250	.50	.250	.19	8-32 x 1/8	.75	None	6.66
SC-312	.63	.312	.25	8-32 x 1/8	1.00	None	7.50
SC-375	.75	.375	.25	10-24 x 1/8	1.00	None	8.33
SC-500	1.00	.500	.38	1/4-20 x 1/4	1.50	1/8 x 1/16	9.99
SC-625	1.25	.625	.50	5/16-18 x 5/16	2.00	3/16 x 3/32	11.66
SC-750	1.50	.750	.50	5/16-18 x 3/8	2.00	3/16 x 3/32	12.49
SC-875	1.75	.875	.50	5/16-18 x 3/8	2.00	3/16 x 3/32	17.49
SC-1000	2.00	1.000	.75	3/8-16 x 1/2	3.00	1/4 x 1/8	19.15
SC-1125	2.13	1.125	.75	3/8-16 x 1/2	3.00	1/4 x 1/8	21.65
SC-1250	2.25	1.250	1.00	3/8-16 x 1/2	4.00	1/4 x 1/8	26.65
SC-1375	2.50	1.375	1.00	3/8-16 x 1/2	4.50	5/16 x 3/32	38.17

FLEXIBLE SHAFT COUPLINGS

Gear Grip



Neoprene and urethane rubber sleeve compounds provide excellent torsional vibration dampening, absorb load pulsations and minimize drive line shock. The load is distributed evenly over a wide splined contact area. Gear grip couplings handle shock, cycling loads and vibration. Eliminates precise measurement, minimizes assembly time, requires no special tools and allows for "blind" assembly. Not affected by moisture, dirt and abrasives. No lubrication, adjustments or maintenance is required. Provides protection to the expensive drive train during extreme overloads, jamming or high shock. Electrical isolation. No possibility of metal-to-metal contact under severe overload, wear or coupling failure. Parallel misalignment to .040" except type A's which are .016" Angular misalignment 7.5° maximum. Other sizes and special bores and keyways are available as special order. Please call for price and delivery. For complete coupling, order two hubs and one sleeve of same size.

Sleeves

Cat. No.	Material	Size	B	D	Nominal Torque Inch Lbs.	Max Torque Inch Lbs.	HP @ 1750 RPM	Max. Speed RPM	Stiffness In # (Rad)	Price Each
GU-1000	Neoprene	A	.56	.78	4	18	.11	25,000	28	1.48
GU-1001	Urethane	A	.56	.80	13	55	.36	25,000	57	2.12
GU-1002	Neoprene	B	.85	1.20	16	65	.44	16,800	124	3.16
GU-1003	Urethane	B	.85	1.14	40	160	1.10	16,800	183	3.66
GU-1004	Neoprene	C	1.59	1.20	30	110	.83	16,500	107	4.26
GU-1005	Urethane	C	1.59	1.14	50	200	1.30	16,500	115	5.56
GU-1006	Neoprene	D	1.59	1.40	60	250	1.70	15,500	270	5.44
GU-1007	Neoprene**	D	1.59	1.56	72	400	2.00	15,500	225	31.40
GU-1008	Neoprene	E	1.59	1.84	108	440	3.00	15,000	630	8.44
GU-1009	Urethane	E	1.59	1.82	185	738	5.00	15,000	423	13.12
GU-1011	Urethane	F	1.59	2.37	200	800	5.50	10,000	1,530	20.46

1 Angular degree of twist = .01745 radians. ** Reinforced

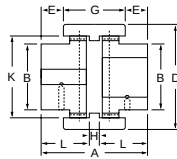
Hubs

Cat. No.	Size	A	C	H	S	No. of Teeth	Set Screws	Bore	Keyseat	Price Each
Hubs With No Bore*										
GU-2200	B	1.50	.72	1.15	.33	8	—	—	—	2.56
Hubs With Bore										
GU-2101	A	1.00	.50	0.70	.22	8	8-32	1/8	—	2.46
GU-2102	A	1.00	.50	0.70	.22	8	8-32	3/16	—	2.46
GU-2103	A	1.00	.50	0.70	.22	8	8-32	1/4	—	2.46
GU-2104	A	1.00	.50	0.70	.22	8	8-32	5/16	—	2.46
GU-2105	A	1.00	.50	0.70	.22	8	8-32	3/8	—	2.46
GU-2201	B	1.50	.72	1.15	.33	8	1/4-20	1/4	—	2.56
GU-2202	B	1.50	.72	1.15	.33	8	1/4-20	5/16	—	2.56
GU-2203	B	1.50	.72	1.15	.33	8	1/4-20	3/8	—	2.56
GU-2205	B	1.50	.72	1.15	.33	8	1/4-20	1/2	—	2.56
GU-2302	C	2.25	1.09	1.15	.33	8	1/4-20	3/8	—	3.18
GU-2304	C	2.25	1.09	1.15	.33	8	1/4-20	1/2	—	3.18
GU-2401	D	2.38	1.14	1.45	.38	10	1/4-20	3/8	1/8 x 1/16	5.50
GU-2403	D	2.38	1.14	1.45	.38	10	1/4-20	1/2	1/8 x 1/16	5.50
GU-2404	D	2.38	1.14	1.45	.38	10	1/4-20	5/8	3/16 x 3/32	5.50
GU-2501	E	2.38	1.14	1.63	.38	12	1/4-20	3/8	1/8 x 1/16	7.10
GU-2503	E	2.38	1.14	1.63	.38	12	1/4-20	1/2	1/8 x 1/16	7.10
GU-2504	E	2.38	1.14	1.63	.38	12	1/4-20	5/8	3/16 x 3/32	7.10
GU-2505	E	2.38	1.14	1.63	.38	12	1/4-20	3/4	3/16 x 3/32	7.10
GU-2602	F	2.50	1.19	2.06	.43	12	5/16-18	3/4	3/16 x 3/32	8.64
GU-2603	F	2.50	1.19	2.06	.43	12	5/16-18	7/8	3/16 x 3/32	8.64
GU-2605	F	2.50	1.19	2.06	.43	12	5/16-18	1	1/4 x 1/8	8.64

*Hubs with no bore have pilot hole.

FLEXIBLE SHAFT DRIVE COUPLINGS

M-Style



Alignment tolerances:

Axial displacement $\pm .040$ "

Angular misalignment $1^\circ/\text{hub}$

Parallel offset $.016"/\text{hub}$

Recommended hub space gap $.0625"/\text{hub}$

Type	Nominal Torque*	Maximum Torque*	Nominal H.P.		Max RPM	Min./Max. Bore In.
			@ 1750 RPM	@ 1140 RPM		
M-14	86	173	2.5	1.5	14,000	.187/.551
M-24	86	347	4.5	3.2	10,600	.375/.945
M-28	390	781	10.5	7	8,500	.250/1.125
M-32	520	1,041	14.5	9.5	7,500	.437/1.126
M-38	694	1,388	22.10	12.5	6,700	.437/1.50

*Torque in inch pounds. Nominal torque allows for 180°F ambient, full misalignment and/or maximum RPM.

Nylon sleeve and steel hubs allow high ambient temperature operation without lubrication, or maintenance. Continuous operating ambients of 180°F with peak temperatures to 250°F . Nylon sleeves resistant to dirt, moisture, most chemicals and petroleum products. Double crowned tooth design provides free axial movement. Low friction and minimum stress during misalignment. No bolts, pins, flanges or protrusions to affect balance or safety. Blind assembly with slip together components for easy inspection and adjustment without disassembly. Available with no bore (except centering pilot hole), bores, and bores with keyways. Larger sizes, different inch and metric bores and keyways available as special orders. Please call for price and delivery. See pages 331 for other shaft couplings.

For complete coupling order two hubs and one nylon sleeve of the same type.

Sleeves

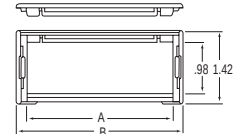
Cat. No.	Type	No. of Teeth	Description	Price Each
GU-400	M-14	20	Nylon Sleeve	4.68
GU-401	M-19	24	Nylon Sleeve	5.40
GU-402	M-24	28	Nylon Sleeve	6.30
GU-403	M-28	34	Nylon Sleeve	10.44
GU-404	M-32	40	Nylon Sleeve	16.20
GU-405	M-38	44	Nylon Sleeve	19.80

Hubs

Cat. No.	Type	A	B	D	E	G	H	K	L	Set Screws	Bore	Keyseat	Price Each
Hubs with No Bore													
GU-100	M-14	1.77	1.00	1.57	.14	1.45	.19	1.30	.78	—	—	—	6.66
GU-101	M-19	1.96	1.25	1.90	.25	1.45	.28	1.53	.86	—	—	—	7.22
GU-105	M-38	3.15	2.30	3.25	.65	1.90	.35	2.70	1.40	—	—	—	13.68
Hubs with Bore & Keyway													
GU-300	M-14	1.77	1.00	1.57	.14	1.45	.19	1.30	.78	10-24	$\frac{1}{4}$	—	12.00
GU-201	M-14	1.77	1.00	1.57	.14	1.45	.19	1.30	.78	10-24	$\frac{1}{2}$	$\frac{1}{8} \times \frac{1}{16}$	12.00
GU-202	M-14	1.77	1.00	1.57	.14	1.45	.19	1.30	.78	10-24	$\frac{3}{8}$	$\frac{1}{16} \times \frac{1}{32}$	12.00
GU-204	M-19	1.96	1.25	1.90	.25	1.45	.28	1.53	.86	$\frac{1}{4}$ -20	$\frac{1}{8}$	$\frac{1}{16} \times \frac{1}{32}$	13.22
GU-205	M-19	1.96	1.25	1.90	.25	1.45	.28	1.53	.86	$\frac{1}{4}$ -20	$\frac{3}{4}$	$\frac{1}{16} \times \frac{1}{32}$	13.22
GU-206	M-24	2.07	1.42	2.05	.25	1.60	.39	1.76	.84	$\frac{1}{4}$ -20	$\frac{1}{2}$	$\frac{1}{8} \times \frac{1}{16}$	14.54
GU-207	M-24	2.07	1.42	2.05	.25	1.60	.39	1.76	.84	$\frac{1}{4}$ -20	$\frac{3}{8}$	$\frac{1}{16} \times \frac{1}{32}$	14.54
GU-208	M-24	2.07	1.42	2.05	.25	1.60	.39	1.76	.84	$\frac{1}{4}$ -20	$\frac{1}{2}$	$\frac{1}{8} \times \frac{1}{16}$	14.54
GU-211	M-28	3.17	1.97	2.58	.69	1.80	.37	2.12	1.40	$\frac{1}{4}$ -20	$\frac{3}{8}$	$\frac{1}{16} \times \frac{1}{32}$	19.94
GU-212	M-28	3.17	1.97	2.58	.69	1.80	.37	2.12	1.40	$\frac{1}{4}$ -20	$\frac{1}{2}$	$\frac{1}{8} \times \frac{1}{16}$	19.94
GU-213	M-28	3.17	1.97	2.58	.69	1.80	.37	2.12	1.40	$\frac{1}{4}$ -20	$\frac{3}{8}$	$\frac{1}{16} \times \frac{1}{32}$	19.94
GU-214	M-28	3.17	1.97	2.58	.69	1.80	.37	2.12	1.40	$\frac{1}{4}$ -20	$\frac{1}{2}$	$\frac{1}{8} \times \frac{1}{16}$	19.94
GU-215	M-32	3.15	1.97	3.00	.63	1.92	.35	2.47	1.40	$\frac{1}{2}$ -18	$\frac{1}{2}$	$\frac{1}{8} \times \frac{1}{16}$	30.68

igus ENERGY CHAIN SYSTEMS

Snap Open Energy Tube



W	X	Y	Z
1.19	1.18	.71	1.42

(See page 336 for design information)

Light weight and quiet operation. Glides on itself when travel is long. Assembles easily with a screwdriver. Protects cables, hose and conduit from hot chips and dirt. Snap open outer radius allows for easy access to cables and hoses. To install: simply lift lids with screwdriver and remove. Install conduits. Lids slide back in and snap in place. Pitch is 1.19". There are 10 links per foot. Minimum operating space is $H + .79$ ". Maximum unsupported length is 6.5 feet depending on load. Maximum gliding speed is 9.75 feet per second. Maximum unsupported speed is 37.5 feet per second. Other types and bending radii available as special order. Please call for price and delivery. Kit includes four foot section of chain and two mounting brackets.

Chain Cat. No.	Kit Cat. No.	A	B	R	H	D	K	Price Per Ft. Chain	Price Per Kit
I-301	I-351	.98	1.39	2.36	6.14	4.33	9.84	22.57	99.57
I-302	I-352	.98	1.39	2.95	7.32	4.92	11.81	22.57	99.57
I-309	I-359	1.97	2.38	2.36	6.14	4.33	9.84	24.29	106.71
I-310	I-360	1.97	2.38	2.95	7.32	4.92	11.81	24.29	106.71
I-311	I-361	1.97	2.38	3.94	9.29	5.91	14.76	24.29	106.71
I-317	I-367	2.95	3.36	2.36	6.14	4.33	9.84	26.17	114.54
I-318	I-368	2.95	3.36	2.95	7.32	4.92	11.81	26.17	114.54
I-319	I-369	2.95	3.36	3.94	9.29	5.91	14.76	26.17	114.54
I-321	I-371	2.95	3.36	5.91	13.23	7.87	21.06	26.17	114.54
I-327	I-377	3.94	4.35	3.94	9.29	5.91	14.76	28.00	122.14
I-329	I-379	3.94	4.35	5.91	13.23	7.87	21.06	28.00	122.14

Mounting Bracket Sets

Cat. No.	For Chain	Price Each	Cat. No.	For Chain	Price Each
I-333	I-301 to I-305	9.29	I-335	I-317 to I-321	9.89
I-334	I-309 to I-313	9.57	I-336	I-325 to I-329	10.14

POLYURETHANE BELLOWS



Round



Rectangular

Strong, lightweight bellows are heat sealed to keep out moisture and contaminants. There are no stitches or glue that could fail. Color is black. They have high resistance to ozone, chemicals, gasoline, kerosene and most other aliphatic petroleum products, plus excellent resistance to ultraviolet and gamma rays. The bellows have high abrasion resistance and tensile strength. Temperature range is -60° to $+225^\circ\text{F}$. Round thickness is $.010$ ". Round bellows have $1/2$ " cuffs that may be secured with standard hose clamps. Available in 12" and 24" extended lengths that compress to 1" and 2" respectively. Square/rectangular thickness is $.020$ ". Square bellows have square ends without cuffs and are available in 12" and 24" extended length that compresses to 1-1/2" and 3" respectively.

				Price Each	
12"	24"	12"	24"	12"	24"
Cat. No.	Cat. No.	ID.	OD.	12"	24"
Round					
BW-101	—	$\frac{1}{2}$	$2\frac{1}{2}$	33.42	—
BW-102	BW-112	$\frac{3}{4}$	$2\frac{3}{4}$	33.42	56.58
BW-103	—	1	3	44.86	—
BW-104	BW-114	$1\frac{1}{4}$	$3\frac{1}{4}$	44.86	67.98
BW-105	BW-115	$1\frac{1}{2}$	$3\frac{1}{2}$	44.86	67.98
BW-107	—	2	4	44.86	—
BW-108	BW-118	$2\frac{1}{2}$	$4\frac{1}{2}$	44.86	67.98
—	BW-119	3	5	—	81.42
Square/Rectangular					
—	BW-131	1×1	3×3	—	87.94
—	BW-132	$2\frac{1}{2} \times 2\frac{1}{2}$	$4\frac{1}{2} \times 4\frac{1}{2}$	—	87.94
—	BW-136*	7×5	9×7	—	125.00

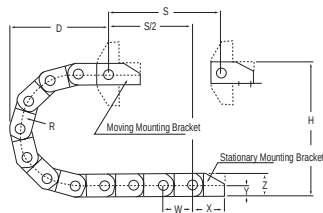
*Rectangular

igus ENERGY CHAIN SYSTEMS

Igus plastic energy chain systems are manufactured from a black composite material that is resistant to chemicals, radiation, and weld spatter. Meets UL94 and DIN 4102 flammability standards. Operates indoors or out in temperatures from -40 to +266° F. Maximum speed of travel is 600 ft. per minute. Sold in one foot sections. Must be snapped together (kits are pre-assembled). Mounting bracket sets contain two brackets, one for each end of the chain. To select the proper chain, use the design data information below. Other types and bending radii available as special order. Please call for price and delivery.

S=Total Travel
H=Mounting Height
D=Curve Radius Depth
K=Curve Radius Length
R=Minimum Bend Radius

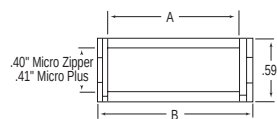
Length of Chain=S/2+K
(Unsupported) Center Mount



Micro Plus and Micro Zipper



Micro Zipper



W	X	Y	Z
.78	.87	.30	.59

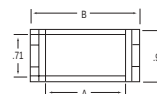
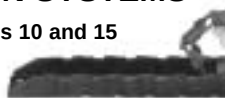
Both micro plus and micro zipper are ideal for material handling, guiding stiff pneumatic hoses or shielded control cables. Pitch is .78". There are 15.38 links per foot. Accepts cables up to .35" thick. Minimum operating height is H+.50". Micro zipper opens to allow the installation of pre-assembled cables. Micro plus chain has a fixed top and does not open. Micro zippers easy opening and closing allows cable to be installed or replaced easily. Attachment surface may face upward or downward. Kits include three foot section of chain and a bracket set.

Micro Plus Chain Cat. No.	Micro Zipper Chain Cat. No.	Micro Plus Kit Cat. No.	Micro Zipper Kit Cat. No.	A	B	R	H	D	K	Price Per Foot		Price Per Kit	
										Micro Plus	Micro Zipper	Micro Plus	Micro Zipper
I-100	I-130	I-151	I-172	.39	.65	.71	2.05	1.77	3.94	7.54	10.01	26.91	34.33
—	I-132	—	I-174	.39	.65	1.50	3.62	2.56	6.30	—	10.01	—	34.33
I-103	I-133	I-154	I-175	.63	.88	.71	2.05	1.77	3.94	7.90	10.13	28.41	35.10
I-104	I-134	I-155	I-176	.63	.88	1.10	2.83	2.16	5.51	7.90	10.13	28.41	35.10
—	I-135	—	I-177	.63	.88	1.50	3.62	2.56	6.30	—	10.13	—	35.10
I-106	I-136	I-157	I-178	.78	1.06	.71	2.05	1.77	3.94	8.36	10.26	30.36	36.06
I-107	I-137	I-158	I-179	.78	1.06	1.10	2.83	2.16	5.51	8.36	10.26	30.36	36.06
I-108	I-138	I-159	I-180	.78	1.06	1.50	3.62	2.56	6.30	8.36	10.26	30.36	36.06
I-109	I-139	I-160	I-181	1.18	1.46	.71	2.05	1.77	3.94	9.77	11.67	35.03	40.73
I-111	I-141	I-162	I-183	1.18	1.46	1.50	3.62	2.56	6.30	9.77	11.67	35.03	40.73
I-112	I-142	I-163	I-184	1.57	1.85	.71	2.05	1.77	3.94	10.00	11.90	36.07	41.77
—	I-143	—	I-185	1.57	1.85	1.10	2.83	2.16	5.51	—	11.90	—	41.77
I-114	I-144	I-165	I-186	1.57	1.85	1.50	3.62	2.56	6.30	10.00	11.90	36.07	41.77
I-115	I-145	I-166	I-187	1.97	2.24	.71	2.05	1.77	3.94	10.43	12.26	37.71	43.20
—	I-148	—	I-190	2.52	2.79	.71	2.05	1.77	3.94	—	12.81	—	45.23
—	I-149	—	I-191	2.52	2.79	1.10	2.83	2.16	5.51	—	12.81	—	45.23
—	I-150	—	I-192	2.52	2.79	1.50	3.62	2.56	6.30	—	12.81	—	45.23

Mounting Bracket Sets

Cat. No.	For Chain	Price Each
I-121	I-100 to I-102 and I-130 to I-132	4.29
I-122	I-103 to I-105 and I-133 to I-135	4.71
I-123	I-106 to I-108 and I-136 to I-138	5.29
I-124	I-109 to I-111 and I-139 to I-141	5.71
I-125	I-112 to I-114 and I-142 to I-144	6.07
I-126	I-115 to I-117 and I-145 to I-147	6.43
I-127	I-118 to I-120 and I-148 to I-150	6.79

Series 10 and 15



W	X	Y	Z
1.18	1.38	.45	.91

Series 10 has a fixed top and does not open. Series 15 has a "zipper" top for quick and easy installation and accessibility to cables and hoses. Pitch is 1.18". There are 10.17 links per foot. Minimum operating space is H + .75". Maximum unsupported length is 4 feet depending on load. Kit includes four foot section of chain and two mounting brackets.

10 Series Chain Cat. No.	15 Series Chain Cat. No.	10 Series Kit Cat. No.	15 Series Kit Cat. No.	A	B	R	H	D	K	Price Per Foot		Price Per Kit	
										10 Series	15 Series	10 Series	15 Series
I-11	I-26	I-51	I-66	.59	1.00	1.50	3.94	3.15	7.28	8.69	12.29	43.31	57.71
I-12	—	I-52	—	.59	1.00	1.90	4.72	3.54	8.46	8.69	—	43.31	—
I-13	I-28	I-53	I-68	.59	1.00	2.95	6.89	4.72	11.81	8.69	12.29	43.31	57.71
I-15	I-29	I-55	I-69	.98	1.40	1.50	3.94	3.15	7.28	8.96	12.57	44.69	59.14
I-16	I-30	I-56	I-70	.98	1.40	1.90	4.72	3.54	8.46	8.96	12.57	44.69	59.14
—	I-31	—	I-71	.98	1.40	2.95	6.89	4.72	11.81	—	12.57	—	59.14
I-19	I-32	I-59	I-72	1.50	1.89	1.50	3.94	3.15	7.28	9.77	13.14	48.16	61.64
—	I-33	—	I-73	1.50	1.89	1.90	4.72	3.54	8.46	—	13.14	—	61.64
—	I-34	—	I-74	1.50	1.89	2.95	6.89	4.72	11.81	—	13.14	—	61.64
I-23	I-35	I-63	I-75	1.97	2.36	1.50	3.94	3.15	7.28	10.31	13.71	50.76	64.36
—	I-36	—	I-76	1.97	2.36	1.90	4.72	3.54	8.46	—	13.71	—	64.36
I-25	I-37	I-65	I-77	1.97	2.36	2.95	6.89	4.72	11.81	10.31	13.71	50.76	64.36

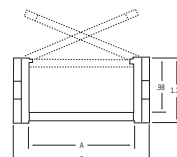
Mounting Bracket Sets

Cat. No.	For Chain	Price Each
I-38	I-11 – I-13 and I-26 – I-28	8.57
I-39	I-15 – I-17 and I-29 – I-31	8.86
I-40	I-19 – I-21 and I-32 – I-34	9.07
I-41	I-23 – I-25 and I-35 – I-37	9.50

Series 200 and 250



W	X	Y	Z
1.81	1.57	.69	1.38

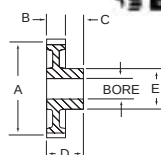


Series 200 and 250 plastic energy chains have chamfered inner side plates for easy link connection. Reinforced stop dog on inside of link. Large diameter pin for service longevity. Smooth dirt resistant exterior. Access to cables/hoses through inner or outer cross bars. Smooth, edge free, interior side link walls. Links assemble by pressing together. The 200 series has fixed cross bars. The 250 series has snap open cross bars on the outside radius for easy accessibility to cables and hoses. Cross bar opens from either side of link. Pitch is 1.81". There are 6.63 links per foot. Minimum operating space is H + 1". Maximum unsupported length is 6.5 feet depending on load. Kit includes four foot section of chain and two mounting brackets.

200 Series Chain Cat. No.	250 Series Chain Cat. No.	200 Series Kit Cat. No.	250 Series Kit Cat. No.	A	B	R	H	D	K	Price Per Foot		Price Per Kit	
										200 Series	250 Series	200 Series	250 Series
I-200	I-250	I-2200	I-2250	1.50	2.13	2.16	5.51	4.92	10.87	11.14	13.43	54.57	63.71
I-201	I-251	I-2201	I-2251	1.50	2.13	2.95	7.28	5.90	13.63	11.14	13.43	54.57	63.71
I-209	I-259	I-2209	I-2259	2.24	2.87	2.16	5.51	4.92	10.87	12.17	14.60	59.11	68.83
—	I-260	—	I-2260	2.24	2.87	2.95	7.28	5.90	13.63	—	14.60	—	68.83
I-211	I-261	I-2211	I-2261	2.24	2.87	3.94	9.25	6.69	16.30	12.17	14.60	59.11	68.83
—	I-263	—	I-2263	2.24	2.87	5.91	13.19	8.66	23.54	—	14.60	—	68.83
I-218	I-268	I-2218	I-2268	3.03	3.66	2.16	5.51	4.92	10.87	13.31	15.71	64.11	73.71
I-219	—	I-2219	—	3.03	3.66	2.95	7.28	5.90	13.63	13.31	—	64.11	—
I-220	—	I-2220	—	3.03	3.66	3.94	9.25	6.69	16.30	13.31	—	64.11	—
I-227	I-277	I-2227	I-2277	4.05	4.67	2.16	5.51	4.92	10.87	14.34	16.86	69.16	79.21
—	I-278	—	I-2278	4.05	4.67	2.95	7.28	5.90	13.63	—	16.86	—	79.21
—	I-281	—	I-2281	4.05	4.67	5.91	13.19	8.66	23.54	—	16.86	—	79.21

Mounting Bracket Sets

Cat. No.	For Chain	Price Each
I-237	I-200 – I-202, I-250 and I-251	10.00
I-238	I-209 – I-211 and I-259 – I-263	10.43
I-239	I-218 – I-220 and I-268 – I-272	10.86
I-240	I-227 and I-277 – I-281	11.79

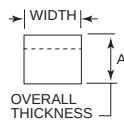
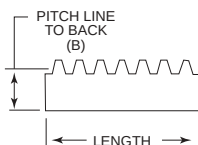


BOSTON GEAR® SPUR GEARS

14-1/2° pressure angle gearing for transmitting motion and power between parallel shafts. Use with gear racks below. All are steel except GE-1040, 1048 and 1248 which are cast iron. 32 and 24 pitch spur gears include a setscrew. None include keyways. Bore tolerance is $\pm .0005"$. Diameter tolerance is $\pm .1/32"$. Other styles, materials and sizes available as special order. Please call for price and delivery.

Pitch Dia. A											Pitch Dia. B												
Cat. No.	Boston	Pitch	No. of Teeth	A	Bore	B	C	D	E	O.D.	Price Each	Cat. No.	Boston	Pitch	No. of Teeth	A	Bore	B	C	D	E	O.D.	Price Each
GE-3216	H3216	32	16	.500	.1875	.188	.31	.498	.39	.562	12.65	GE-1648	NB48A	16	48	3.000	.5000	.500	.50	1.000	2.19	3.125	25.35
GE-3218	H3218	32	18	.562	.1875	.188	.31	.498	.45	.624	12.74	GE-1212	ND12B	12	12	1.000	.5000	.750	.50	1.250	.75	1.167	11.18
GE-3220	H3220	32	20	.625	.2500	.188	.31	.498	.52	.687	12.74	GE-1216	ND16B	12	16	1.333	.6250	.750	.50	1.250	.99	1.500	14.46
GE-3224	H3224	32	24	.750	.3125	.188	.31	.500	.64	.812	12.74	GE-1218	ND18B	12	18	1.500	.6250	.750	.50	1.250	1.15	1.667	15.09
GE-3240	H3240	32	40	1.250	.3750	.188	.38	.568	.88	1.312	12.97	GE-1224	ND24B	12	24	2.000	.6250	.750	.50	1.250	1.65	2.167	20.84
GE-2412	H2412	24	12	.500	.2500	.250	.31	.560	.36	.583	8.49	GE-1230	ND30	12	30	2.500	.6250	.750	.62	1.370	2.15	2.667	22.52
GE-2416	H2416	24	16	.667	.3125	.250	.31	.560	.54	.750	10.31	GE-1232	ND32A	12	32	2.667	.6250	.750	.62	1.370	1.92	2.834	24.71
GE-2420	H2420	24	20	.833	.3125	.250	.31	.562	.70	.916	11.30	GE-1248	ND48	12	48	4.000	.7500	.750	.75	1.500	1.75	4.167	35.28
GE-2424	H2424	24	24	1.000	.3750	.250	.38	.630	.87	1.083	13.32	GE-1012	NF12B	10	12	1.200	.6250	1.000	.62	1.620	.92	1.400	14.18
GE-2012	NA12B	20	12	.600	.3125	.375	.38	.755	.46	.700	6.76	GE-1018	NF18B	10	18	1.800	.7500	1.000	.62	1.620	1.42	2.000	20.84
GE-2016	NA16B	20	16	.800	.3750	.375	.38	.755	.66	.900	8.49	GE-1020	NF20B	10	20	2.000	.7500	1.000	.62	1.620	1.62	2.200	22.52
GE-2020	NA20B	20	20	1.000	.3750	.375	.38	.755	.84	1.100	10.17	GE-1024	NF24B	10	24	2.400	.7500	1.000	.62	1.620	2.02	2.600	25.52
GE-2024	NA24	20	24	1.200	.3750	.375	.38	.755	.92	1.300	11.40	GE-1030	NF30A	10	30	3.000	.7500	1.000	.88	1.880	2.02	3.200	36.51
GE-2032	NA32	20	32	1.600	.3750	.375	.50	.875	1.32	1.700	14.74	GE-1040	NF40	10	40	4.000	.8750	1.000	.88	1.880	2.12	4.200	44.72
GE-2048	NA48A	20	48	2.400	.3750	.375	.50	.875	1.33	2.500	22.79	GE-1048	NF48	10	48	4.800	.8750	1.000	.88	1.880	2.12	5.000	62.40
GE-1612	NB12B	16	12	.750	.3750	.500	.44	.940	.56	.875	8.03	GE-0812	NH12B	8	12	1.500	.7500	1.250	.75	2.000	1.12	1.750	21.93
GE-1614	NB14B	16	14	.875	.3750	.500	.44	.940	.69	1.000	8.93	GE-0816	NH16B	8	16	2.000	.8750	1.250	.75	2.000	1.56	2.250	28.60
GE-1616	NB16B	16	16	1.000	.5000	.500	.44	.940	.81	1.125	10.17	GE-0820	NH20B	8	20	2.500	.8750	1.250	.75	2.000	2.06	2.750	34.13
GE-1620	NB20B	16	20	1.250	.5000	.500	.44	.940	.96	1.375	11.40	GE-0824	NH24A	8	24	3.000	.8750	1.250	.88	2.130	2.06	3.250	44.52
GE-1624	NB24B	16	24	1.500	.5000	.500	.44	.940	1.20	1.625	12.57	GE-0612	NJ12B	6	12	2.000	1.0000	1.500	.88	2.380	1.46	2.333	28.52
GE-1632	NB32	16	32	2.000	.5000	.500	.50	1.000	1.70	2.125	19.65	GE-0624	NJ24A	6	24	4.000	1.1250	1.500	.88	2.380	3.00	4.333	63.91
GE-1640	NB40A	16	40	2.500	.5000	.500	.50	1.000	1.69	2.625	22.62												

BOSTON GEAR® SPUR GEAR RACKS

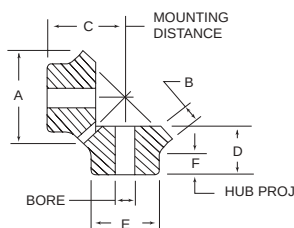


Face Width	Tolerances
1/8-3/4	$\pm .000/- .002$
7/8-1 1/2	$\pm .000/- .003$
1 3/4-2	$\pm .000/- .004$

14-1/2° pressure angle gearing racks. Use with gears above. All are steel. Ends are not machined. Length tolerances are $\pm 1.000/- .000"$ to allow for cutting and matching.

Cat. No.	Boston	Pitch	Width	Length Feet	A	B	Price Each	Cat. No.	Boston	Pitch	Width	Length Feet	A	B	Price Each
GE-3200	L503-4	32	.188	4	.188	.156	40.43	GE-1203	L515-6	12	.750	6	.750	.667	73.11
GE-2400	L505-4	24	.250	4	.250	.208	40.69	GE-1000	L516-4	10	1.000	4	.625	.525	54.37
GE-2000	L509-4	20	.375	4	.375	.325	44.82	GE-1001	L516-6	10	1.000	6	.625	.525	81.56
GE-2001	L509-6	20	.375	6	.375	.325	67.23	GE-1002	L517-4	10	1.000	4	1.000	.900	58.42
GE-1600	L512-4	16	.500	4	.500	.438	44.82	GE-0800	L518-4	8	1.250	4	.750	.625	73.31
GE-1601	L512-6	16	.500	6	.500	.438	67.23	GE-0802	L519-4	8	1.250	4	1.250	1.125	86.90
GE-1200	L514-4	12	.750	4	.500	.417	44.82	GE-0600	L520-4	6	1.500	4	1.000	.833	98.16
GE-1202	L515-4	12	.750	4	.750	.667	48.74								

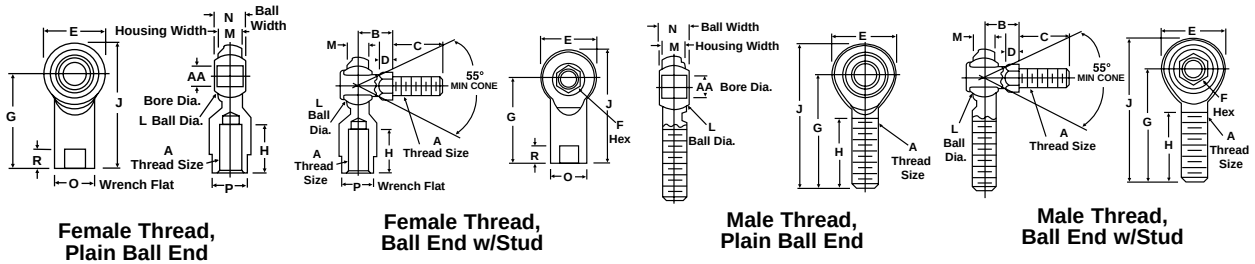
BOSTON GEAR® MITER GEARS



20° pressure angle for transmitting motion and power between intersecting shafts at right angles. All are unhardened steel. 1:1 ratio applications. Coniflex tooth form allows for minor adjustments and increases gear life. Bore tolerance is $\pm .0005"$. Other sizes, keyway and set screw available as special order. Please call for price and delivery.

Cat. No.	Boston	Pitch	No. of Teeth	Pitch Dia.				E	F	Price Each	Cat. No.	Boston	Pitch	No. of Teeth	Pitch Dia.				E	F	Price Each		
				A	Bore	B	C								D	A	Bore	B				C	D
GE-110	L110Y	16	16	1.00	.3750	.23	1.062	.755	.75	.44	11.95	GE-113	L113Y	12	24	2.00	.5000	.44	1.875	1.224	1.31	.69	20.14
GE-111	L111Y	16	20	1.25	.4375	.28	1.250	.849	1.00	.50	13.48	GE-128	L128Y	10	20	2.00	.5000	.45	2.000	1.364	1.62	.81	23.15
GE-112	L112Y	16	24	1.50	.5000	.32	1.375	.880	1.00	.50	15.65	GE-129	L129Y	10	20	2.00	.6250	.45	2.000	1.364	1.62	.81	23.15
GE-125	L125Y	12	15	1.25	.3750	.29	1.250	.864	1.00	.50	14.00	GE-103	L103Y	10	20	2.00	.7500	.45	2.000	1.364	1.62	.81	23.15
GE-101	L101Y	12	15	1.25	.5000	.29	1.250	.864	1.00	.50	14.00	GE-130	L130Y	10	25	2.50	.7500	.56	2.438	1.630	2.00	.94	32.80
GE-127	L127Y	12	18	1.50	.5000	.33	1.500	1.021	1.25	.63	16.52	GE-131	L131Y	10	25	2.50	1.0000	.56	2.438	1.630	2.00	.94	32.80
GE-102	L102Y	12	18	1.50	.6250	.33	1.500	1.021	1.25	.63	16.52	GE-115	L115Y	8	24	3.00	.7500	.66	2.562	1.583	1.75	.81	38.26
GE-119	L119Y	12	21	1.75	.5000	.40	1.750	1.192	1.38	.69	17.27	GE-105	L105Y-A	8	24	3.00	1.0000	.68	2.750	1.786	2.50	1.00	38.26

BALL JOINT ROD ENDS



Available with steel or stainless steel housing and ball. The steel type are available with reinforced nylon raceway or teflon to eliminate the need for lubrication. The steel type housing and ball are made from low carbon steel. The ball is surfaced hardened and plated. The steel housing is plated and dichromate treated. The stud is permanently affixed and is made from high strength steel, cadmium plated. The stainless type housing is made from 303 and the ball is made from 440L stainless, heat treated. Operating temperature from -30° to 350°F. Maximum misalignment is 55°.

Steel, Nylon Raceway, Female Thread, Plain Ball End

Cat. No.	Thread Size	A	AA	E	G	H	J	L	M	N	O	P	R	Price Each
Standard Threads														
SPF-3	10-32	.189/.191	.625	1.062	.562	1.375	.438	.250	.312	.406	.312	.406	5.86	
SPF-4	1/4-28	.250/.252	.750	1.312	.750	1.687	.516	.281	.375	.469	.375	.406	5.78	
SPF-5	5/16-24	.3125/.3145	.875	1.375	.750	1.812	.625	.344	.437	.500	.437	.500	5.70	
SPF-6	3/8-24	.375/.377	1.000	1.625	.937	2.125	.719	.406	.500	.687	.562	.562	5.84	
SPF-7	7/16-20	.4375/.4395	1.125	1.812	1.031	2.375	.812	.437	.562	.750	.625	.625	8.56	
SPF-8	1/2-20	.500/.502	1.312	2.125	1.187	2.781	.938	.500	.625	.875	.750	.687	11.16	
SPF-10	5/8-18	.625/.627	1.500	2.500	1.500	3.250	1.125	.562	.750	1.000	.875	.875	15.96	
SPF-12	3/4-16	.750/.752	1.750	2.875	1.562	3.750	1.312	.687	.875	1.125	1.000	1.000	21.10	
Left Hand Threads														
SPFL-4	1/4-28	.250/.252	.750	1.312	.750	1.687	.516	.281	.375	.469	.375	.406	5.78	
SPFL-5	5/16-24	.3125/.3145	.875	1.375	.750	1.812	.625	.344	.437	.500	.437	.500	5.70	
SPFL-6	3/8-24	.375/.377	1.000	1.625	.937	2.125	.719	.406	.500	.687	.562	.562	6.10	
SPFL-8	1/2-20	.500/.502	1.312	2.125	1.187	2.781	.938	.500	.625	.875	.750	.687	11.44	
SPFL-10	5/8-18	.625/.627	1.500	2.500	1.500	3.250	1.125	.562	.750	1.000	.875	.875	16.22	
SPFL-12	3/4-16	.750/.752	1.750	2.875	1.562	3.750	1.312	.687	.875	1.125	1.000	1.000	21.36	

Steel, Nylon Raceway, Male Thread, Plain Ball End

Cat. No.	Thread Size			A	AA	E	G	H	J	L	M	N	Price Each
Standard Threads													
SPM-3	10-32	.189/.191	.625	1.250	.750	1.562	.438	.250	.312	5.92			
SPM-4	1/4-28	.250/.252	.750	1.562	1.000	1.937	.516	.281	.375	5.94			
SPM-5	5/16-24	.3125/.3145	.875	1.875	1.250	2.312	.625	.344	.437	6.42			
SPM-6	3/8-24	.375/.377	1.000	1.937	1.250	2.437	.719	.406	.500	6.28			
SPM-7	7/16-20	.4375/.4395	1.125	2.125	1.312	2.687	.812	.437	.562	8.52			
SPM-8	1/2-20	.500/.502	1.312	2.437	1.500	3.094	.938	.500	.625	11.16			
SPM-10	5/8-18	.625/.627	1.500	2.625	1.625	3.375	1.125	.562	.750	15.96			
SPM-12	3/4-16	.750/.752	1.750	2.875	1.750	3.750	1.312	.687	.875	21.10			
Left Hand Threads													
SPML-3	10-32	.189/.191	.625	1.250	.750	1.562	.438	.250	.312	5.92			
SPML-4	1/4-28	.250/.252	.750	1.562	1.000	1.937	.516	.281	.375	5.94			
SPML-5	5/16-24	.3125/.3145	.875	1.875	1.250	2.312	.625	.344	.437	6.42			
SPML-6	3/8-24	.375/.377	1.000	1.937	1.250	2.437	.719	.406	.500	6.28			
SPML-7	7/16-20	.4375/.4395	1.125	2.125	1.312	2.687	.812	.437	.562	8.52			
SPML-8	1/2-20	.500/.502	1.312	2.437	1.500	3.094	.938	.500	.625	11.44			
SPML-10	5/8-18	.625/.627	1.500	2.625	1.625	3.375	1.125	.562	.750	16.22			
SPML-12	3/4-16	.750/.752	1.750	2.875	1.750	3.750	1.312	.687	.875	21.36			

Steel, Nylon Raceway, Female Thread, Ball End with Stud

Cat. No.	Thread Size	A	B	C	D	E	F	G	H	J	K*	L*	M	N*	O	P	R	Price Each
Standard Threads																		
SPF-3S	10-32	.437	.437	.156	.625	.312	1.062	.562	1.375	.187	.438	.250	.312	.406	.312	.406	.724	7.24
SPF-4S	1/4-28	.469	.562	.156	.750	.375	1.312	.750	1.687	.248	.516	.281	.375	.469	.375	.406	.728	7.28
SPF-5S	5/16-24	.531	.687	.187	.875	.437	1.375	.750	1.812	.310	.625	.344	.437	.500	.437	.500	.726	7.26
SPF-6S	3/8-24	.625	.875	.218	1.000	.500	1.625	.937	2.125	.372	.719	.406	.500	.687	.562	.562	.746	7.46
SPF-7S	7/16-20	.844	1.062	.312	1.125	.625	1.812	1.031	2.375	.435	.812	.437	.562	.750	.625	.625	.1094	10.94
SPF-8S	1/2-20	.875	1.125	.312	1.312	.625	2.125	1.187	2.781	.497	.938	.500	.625	.875	.750	.687	.1392	13.92
SPF-10S	5/8-18	1.000	1.125	.375	1.500	.750	2.500	1.500	3.250	.622	1.125	.562	.750	1.000	.875	.875	.2008	20.08
SPF-12S	3/4-16	1.187	1.812	.375	1.750	1.000	2.875	1.562	3.750	.747	1.312	.687	.875	1.125	1.000	1.000	.2966	29.66

*K=Stud Neck Dia., L=Ball Dia., N=Ball Width.

Steel, Nylon Raceway, Male Thread, Ball End with Stud

Cat. No.	Thread Size	A	B	C	D	E	F	G	H	J	K*	L*	M	N*	Price Each
Standard Threads															
SPM-3S	10-32	.437	.437	.156	.625	.312	1.250	.750	1.562	.187	.438	.250	.312	7.30	
SPM-4S	1/4-28	.469	.562	.156	.750	.375	1.562	1.000	1.937	.248	.516	.281	.375	7.44	
SPM-5S	5/16-24	.531	.687	.187	.875	.437	1.875	1.250	2.312	.310	.625	.344	.437	7.98	
SPM-6S	3/8-24	.625	.875	.218	1.000	.500	1.937	1.250	2.437	.372	.719	.406	.500	7.92	
SPM-7S	7/16-20	.844	1.062	.312	1.125	.625	2.125	1.312	2.687	.435	.812	.437	.562	10.94	
SPM-8S	1/2-20	.875	1.125	.312	1.312	.625	2.437	1.500	3.094	.497	.938	.500	.625	13.92	
SPM-10S	5/8-18	1.000	1.125	.375	1.500	.750	2.625	1.625	3.375	.622	1.125	.562	.750	20.08	
SPM-12S	3/4-16	1.187	1.812	.375	1.750	1.000	2.875	1.750	3.750	.747	1.312	.687	.875	29.66	

*K=Stud Neck Dia., L=Ball Dia., N=Ball Width.

BALL JOINT ROD ENDS

Steel, Teflon Raceway, Female Thread, Plain Ball End

Cat. No.	Thread Size												Price Each
	A	AA	E	G	H	J	L	M	N	O	P	R	
STF-3	10-32	.189/.191	.625	1.062	.500	1.375	.438	.250	.312	.406	.312	.406	6.05
STF-4	¼-28	.250/.252	.750	1.312	.687	1.687	.516	.281	.375	.469	.375	.406	6.72
STF-5	⅝-24	.3125/.3145	.875	1.375	.687	1.812	.625	.344	.437	.500	.437	.500	7.42
STF-6	¾-24	.375/.377	1.000	1.625	.812	2.125	.719	.406	.500	.687	.562	.562	8.27

Steel, Teflon Raceway, Male Thread, Plain Ball End

Cat. No.	Thread Size												Price Each
	A	AA	E	G	H	J	L	M	N				
STM-3	10-32	.189/.191	.625	1.250	.750	1.562	.438	.250	.312				6.05
STM-4	¼-28	.250/.252	.750	1.562	1.000	1.937	.516	.281	.375				6.72
STM-5	⅝-24	.3125/.3145	.875	1.875	1.250	2.312	.625	.344	.437				7.42
STM-6	¾-24	.375/.377	1.000	1.937	1.250	2.437	.719	.406	.500				8.27

Steel, Teflon Raceway, Female Thread, Ball End with Stud

Cat. No.	Thread Size																Price Each
	A	B	C	D	E	F	G	H	J	K*	L*	M	N*	O	P	R	
STF-3S	10-32	.437	.437	.156	.625	.312	1.062	.500	1.375	.187	.438	.250	.312	.406	.312	.406	7.85
STF-4S	¼-28	.469	.562	.156	.750	.375	1.312	.687	1.687	.248	.516	.281	.375	.469	.375	.406	8.68
STF-5S	⅝-24	.531	.687	.187	.875	.437	1.375	.687	1.812	.310	.625	.344	.437	.500	.437	.500	9.20
STF-6S	¾-24	.625	.875	.218	1.000	.500	1.625	.812	2.125	.372	.719	.406	.500	.687	.562	.562	10.37

*K=Stud Neck Dia., L=Ball Dia., N=Ball Width.

Steel, Teflon Raceway, Male Thread, Ball End with Stud

Cat. No.	Thread Size													Price Each
	A	B	C	D	E	F	G	H	J	K*	L*	M	N*	
STM-3S	10-32	.437	.437	.156	.625	.312	1.250	.750	1.562	.187	.438	.250	.312	7.85
STM-5S	5/16-24	.531	.687	.187	.875	.437	1.875	1.250	2.312	.310	.625	.344	.437	8.68
STM-6S	3/8-24	.625	.875	.218	1.000	.500	1.937	1.250	2.437	.372	.719	.406	.500	9.20

*K=Stud Neck Dia., L=Ball Dia., N=Ball Width.

Stainless Steel, Teflon Raceway, Female Thread, Plain Ball End

Cat. No.	Thread Size												Price Each
	A	AA	E	G	H	J	L	M	N	O	P	R	
SSTF-3	10-32	.189/.191	.625	1.062	.500	1.375	.438	.250	.312	.406	.312	.406	15.72
SSTF-4	¼-28	.250/.252	.750	1.312	.687	1.687	.516	.281	.375	.469	.375	.406	17.58
SSTF-5	⅝-24	.3125/.3145	.875	1.375	.687	1.812	.625	.344	.437	.500	.437	.500	20.42
SSTF-6	¾-24	.375/.377	1.000	1.625	.812	2.125	.719	.406	.500	.687	.562	.562	26.17

Stainless Steel, Teflon Raceway, Male Thread, Plain Ball End

Cat. No.	Thread Size												Price Each
	A	AA	E	G	H	J	L	M	N				
SSTM-3	10-32	.189/.191	.625	1.250	.750	1.562	.438	.250	.312				15.72
SSTM-4	¼-28	.250/.252	.750	1.562	1.000	1.937	.516	.281	.375				17.58
SSTM-5	⅝-24	.3125/.3145	.875	1.875	1.250	2.312	.625	.344	.437				20.42
SSTM-6	¾-24	.375/.377	1.000	1.937	1.250	2.437	.719	.406	.500				26.17

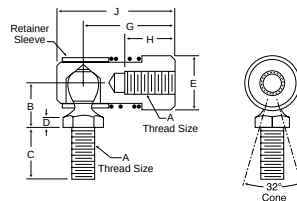
Stamped Style Female Thread – Plain Ball End



The economy stamped style combines high strength with low cost. Made from low carbon steel and plated for corrosion resistance. The ball is case hardened.

Cat. No.	Thread Size												Price Each
	A	AA	E	G	H	J	L	M	N	O	P		
Standard Threads													
ARE-10	10-32	.1900	.750	1.062	.500	1.437	.430	.250	.312	.450	.312	2.91	
ARE-20	¼-28	.2500	.850	1.312	.687	1.737	.510	.287	.375	.515	.375	3.05	
ARE-30	⅝-24	.3125	1.015	1.375	.687	1.882	.618	.305	.437	.590	.437	3.35	
ARE-40	¾-24	.3750	1.125	1.625	.875	2.187	.713	.400	.500	.725	.500	3.40	
ARE-50	1½-20	.5000	1.470	2.125	1.125	2.860	.931	.500	.625	1.010	.625	5.62	
Left Hand Threads													
ARE-240	¾-24	.3750	1.125	1.625	.875	2.187	.713	.400	.500	.725	.500	4.73	

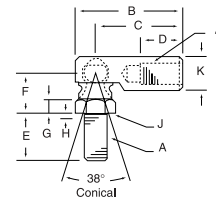
Quick Disconnect Type



These ball joints are high strength, quick disconnect assemblies with good wear characteristics. The retaining sleeve insures the assembly can only be put together with the sleeve positively aligned with the ball cavity. When spring is released, alignment is automatic thereby eliminating any possibility of partial closure. Body and ball stud are made of low carbon steel. Ball studs are surface hardened. All parts are plated and dichromate treated.

Cat. No.	Thread								Price Each
	A	B	C	D	E	G	H	J	
STQ-10	¼-28	.469	.562	.125	.562	.969	.531	1.25	5.58
STQ-20	¾-24	.687	.875	.187	.750	1.375	.812	1.75	12.00

Swaged Construction



Unique assembly swages metal to retain the ball in the cavity resulting in increased pull out and wear resistance. Designed for heavy duty service, they come with a dirt shield to provide protection against contaminants. Made of low carbon steel, plated and dichromate treated. Ball studs are surface hardened.

Cat. No.	Thread												Price Each
	A	B	C	D	E	F	G	H	J	K			
STQ-30	10-32	1⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	1.98
STQ-40	¼-28	1⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	1.82
STQ-50	¾-24	1⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	⅞	4.08

ALLEN BEARING AND GEAR PULLERS

Combination Two and Three Jaw Reversible Gear Pullers



Jaws reverse for inside and outside pulling and also reverse end to end. Large spread and reach accommodate flywheels, pulleys, and gears. Three point grip applies a parallel pull.

Cat. No.	Allen	No. of Jaw Positions	Max. Spread	Max. Reach	Center Cap. Tons	Screw Size	Price Each
AGP-2295	2295	1	6	3½	4	5/8 x 6 1/16	67.35

Two Jaw Reversible Gear Pullers



Jaws reverse for inside and outside pulling and also reverse end to end. Large spread and reach accommodate flywheels, pulleys and gears.

Two Jaw

Cat. No.	Allen	No. of Jaws	No. of Jaw Positions	Max. Spread	Max. Reach	Center Cap. Tons	Screw Size	Price Each
AGP-2294	2294	2	1	6	3½	5	5/8 x 6 1/16	40.94
AGP-2298	2298	2	1	8	5½	5	1 1/16 x 9 1/8	75.31

Two Jaw Adjustable Gear Pullers



Rugged, heavy-duty pullers designed for most difficult pulling applications. The two position jaws provide added versatility along with extended reach capabilities. Jaws reverse for inside and outside pulling.

Cat. No.	Allen Part No.	No. of Jaw Positions	Max. Spread	Max. Reach	Center Cap. Tons	Screw Size	Price Each
AGP-2292	2292	2	4	3½	3	3/8 x 4 3/4	31.37
AGP-2296	2296	2	7	5½	5	5/8 x 6 1/16	49.75

Slide Hammer Puller Set



Slide hammer puller set is for outside and inside pulling of gears, bearings, pinions, grease retainers, oil seals, bearing out races and many other jobs. Use as two jaw or three jaw puller. Reversing the cone and jaws adjusts the tool for inside pulling. Comes with 2-1/2 pound hammer. Slide hammer has 5/8-18 UNF thread. Capacity with two jaws is 1" to 4-1/2" outside and 1-1/4" to 3-3/8" on the inside. Capacity with three jaw is 1-1/2" to 4-1/2" on the outside and 1-5/16" to 4-3/4" on the inside.

Cat. No.	Allen	Description	Price Each
AGP-2256	2256	Slide Hammer Puller Set	124.46

Split Bearing Attachments



Designed for the removal of bearings, thin faced gears and cone-shaped gears. Beveled edge allows insertion behind pulleys, gears, or bearings where space limits use of a standard puller jaw. Used to grip part to be pulled. Then pull with gear puller.

Cat. No.	Allen Part No.	Min Reach	Max Reach	Price Each
AGP-2263	2263	0	2 1/4	31.44
AGP-2264	2264	0	4 1/4	79.74
AGP-2265	2265	1/2	8 3/8	222.67

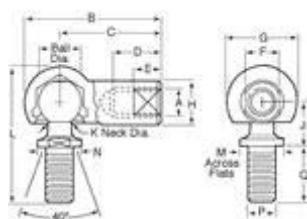
Combination Two and Three Jaw Adjustable Gear Pullers



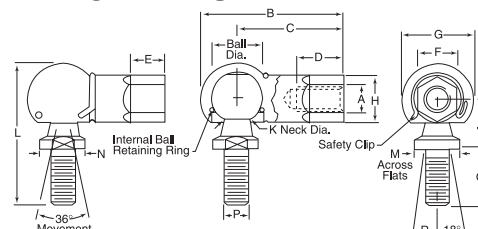
Heavy duty two or three jaw adjustable pullers designed for your toughest pulling jobs. Uses special two/three-way yoke. Jaws reverse for inside and outside pulling. The triple-jaw design provides a positive three-point grip on the part to be pulled. The three position jaws provide added versatility and extended reach. All parts are heat treated.

Cat. No.	Allen Part No.	No. of Jaw Positions	Max. Spread	Max. Reach	Center Cap. Tons	Screw Size	Price Each
AGP-2297	2297	2	7	5½	5	5/8 x 6 1/16	71.77
AGP-2260	2260	3	17	15	13	1 1/16 x 12	241.06

METRIC BALL JOINT ROD ENDS



Standard



Heavy Duty

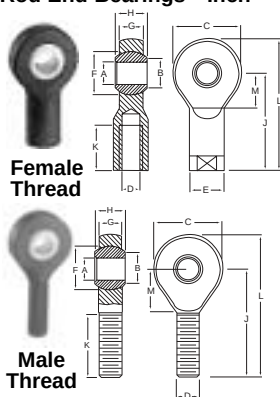
Standard duty has zinc plated yellow passivated steel equivalent to SAE 12L14. Tensile strength 60,000 to 72,000 psi. Nylon liner. Wrench flats on ball studs and bodies facilitate assembly. 40° of movement, DIN 71802 and 71803. Heavy duty has a zinc plated passivated body with an induction hardened ball. De-embrittled retaining ring and safety clip retain ball stud. Hexagon form on body and wrench flats on ball stud facilitate assembly. 36° movement, DIN 71802. Both assembly types are lubricated. All dimensions are in millimeters.

Cat. No.	Thread A	B	C	D	E	F	G	H	J	K	L	M	N	Thread P	Q	R	Ball Dia.	Price Each
Standard																		
BX-6	M6x1.0	33.0	25	11.5	6	8	17.8	10	11	5.0	32.5	8	10	M6x1.0	12.5	—	10	2.32
BX-8	M8x1.25	40.0	30	14.0	8	11	20.8	13	13	6.5	40.0	11	13	M8x1.25	16.5	—	13	2.70
BX-10	M10x1.5	46.3	35	15.5	10	14	23.8	16	16	8.0	48.0	13	16	M10x1.5	20.0	—	16	3.44
BX-12	M12x1.75	56.3	45	25.5	8	14	23.8	16	16	8.0	48.0	13	16	M12x1.75	20.0	—	16	3.50
Heavy Duty																		
BX-51	M5x0.8	28.4	22	10.2	5	7	12.8	8	9	4.0	25.4	7	8	M5x0.8	10.2	10°	8	3.60
BX-61	M6x1.0	32.4	25	11.5	7	9	14.8	10	11	5.0	30.4	8	10	M6x1.0	12.5	15°	10	3.98
BX-81	M8x1.25	39.6	30	14.0	9	11	19.3	13	13	6.5	38.6	11	13	M8x1.25	16.5	15°	13	5.34
BX-101	M10x1.5	47.0	35	15.5	9	13	24.0	16	16	8.0	47.0	13	16	M10x1.5	20.0	15°	16	7.76

igus POLYMER BEARINGS

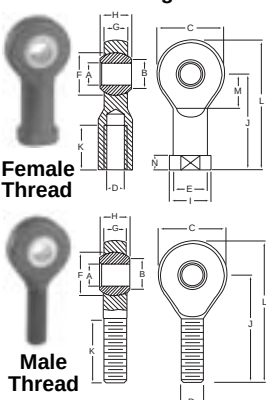
These bearings are self-aligning, maintenance free and made of high performance polymer. Dust, dirt, corrosion and chemical resistant. Vibration dampening capacity. Suitable for rotary, oscillating and linear motions. Compensates for misalignment and edge loads. Lightweight and easy to install. Self-lubricating oil-free operation. Operates in temperatures from -40°F to +275°F. Metric dimensions are in millimeters. All are right hand threads. Left hand threads are available as special order. Please call for price and delivery.

Rod End Bearings—Inch



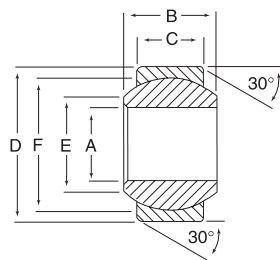
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	Price Each
Female Thread													
I-500	.190	.307	.625	10-32	.406	.438	.250	.312	1.062	.500	1.375	.356	3.56
I-502	.250	.354	.750	¼-28	.469	.516	.281	.375	1.312	.687	1.687	.396	3.73
I-504	.312	.447	.875	⅜-24	.500	.625	.348	.437	1.375	.687	1.812	.443	3.79
I-506	.375	.504	1.000	¾-24	.687	.718	.406	.500	1.625	.812	2.125	.570	4.41
I-508	.437	.600	1.125	⅞-20	.750	.828	.451	.562	1.812	.937	2.375	.595	5.39
I-510	.500	.700	1.312	1½-20	.875	.938	.500	.625	2.125	1.062	2.781	.620	6.47
I-512	.625	.838	1.500	¾-18	1.000	1.125	.562	.750	2.500	1.375	3.250	.715	8.89
I-514	.750	.978	1.750	¾-16	1.125	1.312	.687	.875	2.875	1.562	3.750	.868	11.76
Male Thread													
I-516	.190	.307	.625	10-32	—	.438	.234	.312	1.250	.750	1.563	.421	2.53
I-518	.250	.354	.750	¼-28	—	.516	.250	.375	1.562	1.000	1.937	.473	3.13
I-520	.312	.447	.875	⅜-24	—	.625	.312	.437	1.875	1.250	2.312	.526	3.73
I-522	.375	.504	1.000	¾-24	—	.718	.359	.500	1.938	1.250	2.438	.570	4.04
I-524	.500	.700	1.312	½-20	—	.938	.453	.625	2.438	1.500	3.094	.800	5.87

Rod End Bearings—Metric



Cat. No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Price Each
Female Thread															
I-530	5	7.7	18	M5x0.8	9.0	11	6.0	8	12	27	10	36	9	4	3.59
I-532	6	8.9	20	M6x1.0	10.0	13	7.0	9	13	30	12	40	10	5	3.71
I-534	8	10.3	24	M8x1.25	12.5	16	9.0	12	16	36	16	48	12	5	3.80
I-536	10	12.9	30	M10x1.5	15.0	19	10.5	14	19	43	20	58	14	6.5	4.93
I-538	12	15.4	34	M12x1.75	17.5	22	12.0	16	22	50	22	67	16	6.5	6.17
I-540	14	16.8	38	M14x2.0	20.0	25	13.5	19	25	57	25	76	18	8	7.20
I-542	16	19.3	42	M16x2.0	22.0	29	15.0	21	27	64	28	85	21	8	9.40
Male Thread															
I-550	6	8.9	20	M6x1.0	—	12.7	7.0	9	—	36	21	46	—	—	3.10
I-552	8	10.3	24	M8x1.25	—	15.8	9.0	12	—	42	25	54	—	—	3.74
I-554	10	12.9	30	M10x1.5	—	19.0	10.5	14	—	48	28	63	—	—	4.41
I-558	14	16.8	38	M14x2.0	—	25.4	13.5	19	—	60	36	79	—	—	6.69

Spherical Bearings Inch and Metric



Cat. No.	A	B	C	D	E	F	Price Each
Inch							
I-570	.1900	.312	.218	.5625	.3070	.438	2.87
I-571	.2500	.375	.250	.6562	.3540	.516	3.07
I-572	.3125	.437	.281	.7500	.4470	.625	3.23
I-573	.3750	.500	.312	.8125	.5040	.718	3.49
I-574	.4375	.562	.343	.9062	.6000	.828	4.11
I-575	.5000	.625	.390	1.0000	.7000	.938	4.76
I-576	.6250	.750	.500	1.1875	.8381	1.125	5.99
I-577	.7500	.875	.593	1.4375	.9781	1.312	7.34
Metric							
I-580	5	8	6.0	13	7.7	11.1	2.89
I-582	8	12	9.0	19	10.3	15.8	3.26
I-583	10	14	10.5	22	12.9	19.0	3.87
I-586	16	21	15.0	32	19.3	28.5	6.06
I-588	20	25	18.0	40	24.3	34.8	7.54
I-590	25	31	22.0	47	29.5	42.8	10.66

CONNECTING RODS

For Linkage Assemblies



PTL-100
thru 207



PTL-300
thru 414

Add rod ends onto each side to build a finished linkage assembly. Both ends are right-hand thread. Parts are designed for use with rod ends and are ideal for any push/pull assembly.

Cat. No.	Rod Diameter	Length	Thread	Thread Depth Each End	Price Each	Cat. No.	Rod Diameter	Length	Thread	Thread Depth Each End	Price Each
Steel - Internal Threads						Steel-External Threads					
PTL-100	¼	6	10-32	¾	6.15	PTL-305	¾	18	⅞-28	1½	6.50
PTL-101	¾	6	⅞-28	1	6.40	PTL-306	⅞	18	⅞-24	1½	7.10
PTL-102	¾	12	10-32	¾	7.45	PTL-307	⅞	24	⅞-24	1½	8.30
PTL-103	¾	12	⅞-28	1	7.60	Aluminum-External Threads					
PTL-104	¾	18	⅞-28	1	8.10	PTL-400	¾	6	¾-24	2	5.20
Aluminum - Internal Threads						PTL-401	½	6	½-20	2	10.00
PTL-200	⅞	6	¾-24	1¼	6.60	PTL-402	¾	12	¾-24	2	5.95
PTL-201	¾	6	½-20	1½	7.25	PTL-403	½	12	½-20	2	6.90
PTL-202	⅞	12	¾-24	1¼	7.45	PTL-404	¾	12	¾-18	3½	8.10
PTL-203	¾	12	½-20	1½	8.75	PTL-405	¾	18	¾-24	2	6.55
PTL-204	⅞	18	¾-24	1¼	8.30	PTL-406	½	18	½-20	2	7.80
PTL-205	¾	18	½-20	1½	9.90	PTL-407	¾	18	¾-16	3½	11.85
PTL-206	¾	18	¾-18	1½	12.30	PTL-408	¾	24	¾-24	2	7.30
PTL-207	¾	18	¾-16	1¼	14.95	PTL-409	½	24	½-20	2	9.00
Steel - External Threads						PTL-410	¾	24	¾-16	3½	14.20
PTL-300	¼	6	⅞-28	1½	5.15	PTL-411	¾	30	¾-24	2	8.00
PTL-301	⅞	6	⅞-24	1½	5.35	PTL-412	½	30	½-20	2	9.90
PTL-302	⅞	12	10-32	1½	5.95	PTL-413	¾	30	¾-16	3½	18.95
PTL-303	¾	12	⅞-28	1½	6.05	PTL-414	½	36	½-20	2	11.10
PTL-304	⅞	12	⅞-24	1½	6.35						

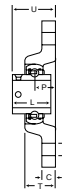
INA MOUNTED BEARINGS



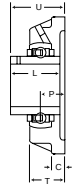
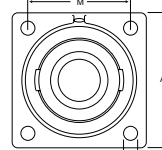
Pillow Block



2 Bolt Flange



4 Bolt Flange



These mounted bearings are used extensively in fabricated equipment because they are easy to fit, maintain and replace. They are sealed and pre-greased, and under normal conditions require no further lubrications (grease fitting is supplied for additional lubrication under adverse conditions). Housing is made from cast iron. All bearings below have set screw shaft locking.

Pillow Block Style

Cat. No.	Bore	A	B	C	H	K	M	O	W	Price Each 1-5	Cat. No.	Bore	A	B	C	H	K	M	O	W	Price Each 1-5
INA-10	1/2	1 1/16	1 1/4	9/16	2 9/32	7/16	4 1/16	5/8	4 1/16	22.80	INA-50	1 1/4	1 7/8	1 7/8	1 7/8	3 1/16	1 9/32	5 7/16	1	6 25/32	37.90
INA-15	5/8	1 3/16	1 1/4	9/16	2 9/32	7/16	4 1/16	5/8	4 1/16	22.80	INA-55	1 3/8	1 7/8	1 7/8	1 7/8	3 1/16	1 9/32	5 7/16	1	6 25/32	37.90
INA-20	3/4	1 5/16	1 1/4	9/16	2 17/32	7/16	4 1/8	23/32	5 1/8	25.13	INA-65	1 1/2	1 15/16	1 3/4	1 3/4	3 1/16	1 9/32	5.787	1 1/16	7 7/32	40.60
INA-25	7/8	1 7/16	1 13/32	5/8	2 19/16	15/32	4 1/2	25/32	5 1/2	27.15	INA-80	1 3/4	2 1/8	2 1/8	2 1/8	4 3/32	1 9/16	6 9/16	1 1/16	7 11/16	47.43
INA-35	1	1 7/16	1 15/32	5/8	2 19/16	15/32	4 1/2	25/32	5 1/2	25.88	INA-90	2	2 1/2	2 1/2	2 1/2	4 3/32	2 3/32	7 9/16	1 9/16	8 7/8	63.87
INA-40	1 1/8	1 11/16	1 11/16	23/32	3 3/32	1 9/32	5	7/8	6 3/16	32.20											

Two Bolt Flange Style

Cat. No.	Bore	A	B	C	K	L	M	P	T	U	Price Each 1-5	Cat. No.	Bore	A	B	C	K	L	M	P	T	U	Price Each 1-5
INA-110	1/2	2 1/4	3 29/32	13/32	15/32	1 1/32	3	2 1/32	1 9/16	1 9/32	22.80	INA-140	1 1/8	3 3/32	5 19/32	1/2	15/32	1 1/2	4 19/32	2 5/32	1 9/32	1 21/32	32.20
INA-115	5/8	2 1/4	3 29/32	13/32	15/32	1 1/32	3	2 1/32	1 9/16	1 9/32	22.80	INA-150	1 1/4	3 21/32	6 3/32	9/16	9/16	1 11/16	5 1/8	2 7/32	1 3/8	1 27/32	37.90
INA-120	3/4	2 1/16	4 13/32	7/16	15/32	1 1/32	3 3/64	3/4	1 9/32	1 15/32	25.13	INA-165	1 1/2	4 9/32	6 1/2	1 9/32	9/16	1 15/16	5 21/32	1 5/16	1 1/2	2 1/8	40.60
INA-135	1	2 25/32	5 1/8	15/32	15/32	1 11/32	3 29/32	3/4	1 3/32	1 17/32	25.88	INA-185	1 15/16	4 19/32	7 17/32	5/8	2 1/32	2 1/32	6 3/16	1 3/32	1 11/16	2 3/8	54.20

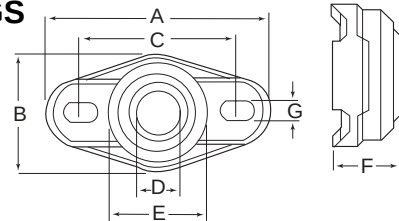
Four Bolt Flange Style

Cat. No.	Bore	A	C	K	L	M	P	T	U	Price Each 1-5	Cat. No.	Bore	A	C	K	L	M	P	T	U	Price Each 1-5
INA-210	1/2	3	1 9/32	15/32	1 1/32	2 1/8	2 1/32	1 9/16	1 9/32	22.80	INA-250	1 1/4	4 21/32	1 7/32	9/16	1 11/16	3 3/8	2 7/32	1 3/8	1 27/32	37.90
INA-215	5/8	3	1 9/32	15/32	1 1/32	2 1/8	2 1/32	1 9/16	1 9/32	22.80	INA-255	1 3/8	4 21/32	1 7/32	9/16	1 11/16	3 3/8	2 7/32	1 3/8	1 27/32	37.90
INA-220	3/4	3 3/8	1 9/32	15/32	1 1/32	2 1/2	3/4	1 9/32	1 17/32	25.13	INA-260	1 7/16	4 21/32	1 7/32	9/16	1 11/16	3 3/8	2 7/32	1 3/8	1 27/32	37.90
INA-225	7/8	3 3/4	1/2	15/32	1 1/32	2 3/4	3/4	1 9/16	1 17/32	27.15	INA-265	1 1/2	5 1/8	1 9/32	9/16	1 15/16	4	1 5/16	1 1/2	2 1/8	40.60
INA-235	1	3 3/4	1/2	15/32	1 1/32	2 3/4	3/4	1 9/16	1 17/32	25.88	INA-285	1 15/16	5 5/8	1 9/32	2 1/32	2 1/32	4 3/8	1 3/32	1 21/32	2 3/8	54.28
INA-240	1 1/8	4 9/32	1/2	15/32	1 1/2	3 1/4	2 5/32	1 1/4	1 21/32	32.20	INA-290	2	6 13/32	2 1/32	2 1/32	2 1/32	5 1/8	1 7/32	1 27/32	2 1/32	63.87

igus POLYMER BEARINGS

Metric

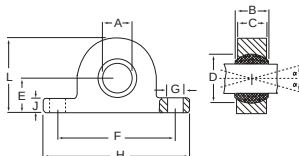
Flange Bearings



These bearings are self-aligning, maintenance free and made of high performance polymer. Dust, dirt, corrosion and chemical resistant. Vibration dampening capacity. Compensates for misalignment and edge loads. Lightweight and easy to install. Self-lubricating oil-free operation. Operates in temperatures from -40°F to +275°F. Dimensions are in millimeters.

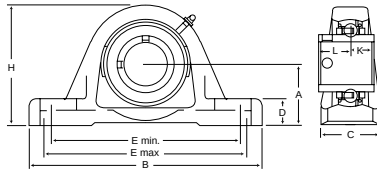
Cat. No.	Shaft		Angle of Pivot		A	B	C	D	E	F	G	Maximum Static Load	Maximum Torque Lbs.	Price Each
	Max	Min	Maximum	Recommended										
I-703	8.00	7.964	24	10	44.2	22.3	31.0	8	18.0	10.5	4.3 x 6.5	247	2.21	7.53
I-704	10.00	9.964	24	8	52.0	26.0	36.0	10	22.0	12.0	5.3 x 8.0	286	3.31	9.14
I-705	12.00	11.957	21	7	56.7	31.0	41.0	12	25.0	13.0	5.3 x 8.0	337	4.42	11.24
I-706	16.00	15.957	24	10	72.6	38.0	53.0	16	32.0	17.5	6.4 x 10.0	562	6.63	14.87
I-707	20.00	19.948	17	7	89.0	47.0	65.0	20	40.0	20.0	8.4 x 12.5	675	12.53	25.71
I-708	25.00	24.948	14	6	101.0	58.5	75.0	25	48.5	25.0	8.4 x 12.5	900	14.75	27.56
I-709	30.00	29.948	12	5	118.0	65.0	87.5	30	55.0	26.0	10.5 x 16.0	1,350	16.22	36.73

Spherical Pillow Blocks

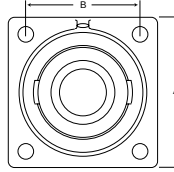


Cat. No.	A	B	C	D	E	F	G	H	J	L	Price Each
I-591	5	8	6.0	11.1	7	25	4.5	36	3	14	2.49
I-592	6	9	7.0	12.7	10	33	4.5	44	4	20	3.03
I-593	8	12	9.0	15.8	10	33	4.5	44	4	20	3.66
I-594	10	14	10.5	19.0	14	35	5.5	60	6	28	4.31
I-595	12	16	12.0	22.2	14	35	5.5	60	6	28	5.33
I-597	16	21	15.0	28.5	18	60	6.5	80	6	36	7.86

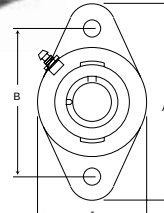
SKF MOUNTED BEARINGS



Pillow Block



Four Bolt Flange



Two Bolt Flange

These mounted bearings are used extensively in fabricating equipment because they are easy to fit, maintain and replace. Made of cast iron housings with a grease fitting for easy lubrication. Pillow block style comes in two types, standard height and low center height. Flange mount bearings come in two or four bolt pattern for mounting shafts through walls, bulkheads and other flat surfaces.

Pillow Block - Standard Height

Cat. No.	Bore	Load Rating	A	B	C	D	E		H	K	L	Price Each	Cat. No.	Bore	Load Rating	A	B	C	D	E		H	K	L	Price Each
							Min	Max												Min	Max				
SKF-400	1/2	1,650	1 1/16	5	1 1/4	9/16	3 1/32	4 1/16	2 3/32	3/4	5/8	26.84	SKF-409	1 1/4	4,410	1 7/8	6 5/16	1 29/32	3/4	4 1/16	5 3/4	3 19/32	3/8	1	37.82
SKF-401	5/8	1,650	1 1/16	5	1 1/4	9/16	3 19/32	4 1/16	2 7/32	3/4	5/8	26.84	SKF-410	1 3/8	4,410	1 7/8	6 5/16	1 29/32	3/4	4 1/16	5 3/4	3 21/32	3/8	1	37.82
SKF-402	3/4	2,210	1 1/16	5	1 1/4	9/16	3 19/32	4 3/16	2 17/32	9/32	2 3/32	27.94	SKF-411	1 1/2	4,410	1 7/8	6 5/16	1 29/32	3/4	4 1/16	5 3/4	3 21/32	3/8	1	37.82
SKF-403	7/8	2,430	1 1/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	5/16	2 5/32	29.48	SKF-412	1 1/2	5,310	1 15/16	6 29/32	1 29/32	3/4	4 15/16	5 3/4	3 29/32	2 9/64	1 1/8	49.63
SKF-404	1 1/16	2,430	1 1/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	5/16	2 5/32	29.48	SKF-413	1 1/2	5,740	1 15/16	6 29/32	1 29/32	3/4	4 15/16	5 3/4	3 29/32	2 9/64	1 1/8	58.12
SKF-405	1	2,430	1 1/16	5 1/8	1 13/32	5/8	3 11/16	4 11/32	2 3/4	5/16	2 5/32	29.48	SKF-414	1 3/4	5,740	1 15/16	6 29/32	1 29/32	3/4	4 15/16	5 3/4	3 29/32	2 9/64	1 1/8	58.12
SKF-406	1 1/8	3,380	1 1/16	6	1 1/8	2 1/32	4 1/4	5	3 7/32	2 3/64	7/8	35.31	SKF-415	1 15/16	6,080	2 1/4	8	2 1/8	7/8	5 7/8	6 1/2	4 1/2	7/16	1 7/64	66.18
SKF-407	1 3/16	3,380	1 1/16	6	1 1/8	2 1/32	4 1/4	5	3 7/32	2 3/64	7/8	35.31	SKF-416	2	7,540	2 1/2	8 5/8	2 3/16	1 5/16	6 3/8	7 1/8	5	1/2	1 1/32	66.18
SKF-408	1 1/4	3,380	1 1/16	6	1 1/8	2 1/32	4 1/4	5	3 7/32	2 3/64	7/8	35.31	SKF-417	2 1/8	7,540	2 1/2	8 5/8	2 3/16	1 5/16	6 3/8	7 1/8	5	1/2	1 1/32	66.18

Pillow Block - Low Center

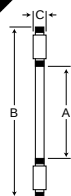
Cat. No.	Bore	Load Rating	A	B	C	D	E		H	K	L	Price Each	Cat. No.	Bore	Load Rating	A	B	C	D	E		H	K	L	Price Each
							Min	Max												Min	Max				
SKF-419	1/2	1,650	1 1/16	5	1 1/4	2 7/64	3 19/32	4 3/16	2 3/32	3/4	5/8	26.84	SKF-428	1 1/4	4,410	1 13/16	6 9/16	1 29/32	1 1/16	4 1/16	5 3/4	3 19/32	3/8	1	37.82
SKF-420	5/8	1,650	1 1/16	5	1 1/4	2 7/64	3 19/32	4 3/16	2 3/32	3/4	5/8	26.84	SKF-429	1 3/8	4,410	1 13/16	6 9/16	1 29/32	1 1/16	4 1/16	5 3/4	3 19/32	3/8	1	37.82
SKF-421	3/4	2,210	1 1/4	5	1 1/4	2 3/4	3 19/32	4 3/16	2 19/32	9/32	2 3/32	27.94	SKF-430	1 1/2	4,410	1 13/16	6 9/16	1 29/32	1 1/16	4 1/16	5 3/4	3 19/32	3/8	1	37.82
SKF-422	7/8	2,430	1 1/16	5 1/8	1 13/32	1/2	3 11/16	4 11/32	2 5/8	5/16	2 5/32	29.48	SKF-431	1 1/2	5,310	1 15/16	6 29/32	1 29/32	3/4	4 15/16	5 3/4	3 29/32	2 9/64	1 1/8	49.63
SKF-423	1 1/16	2,430	1 1/16	5 1/8	1 13/32	1/2	3 11/16	4 11/32	2 5/8	5/16	2 5/32	29.48	SKF-432	1 1/2	5,740	1 15/16	6 29/32	1 29/32	3/4	4 15/16	5 3/4	3 29/32	2 9/64	1 1/8	58.12
SKF-424	1	2,430	1 1/16	5 1/8	1 13/32	1/2	3 11/16	4 11/32	2 5/8	5/16	2 5/32	29.48	SKF-433	1 3/4	5,740	1 15/16	6 29/32	1 29/32	3/4	4 15/16	5 3/4	3 29/32	2 9/64	1 1/8	58.12
SKF-425	1 1/8	3,380	1 1/16	6	1 1/8	1 7/32	4 1/4	5	3 3/32	2 3/64	7/8	35.31	SKF-434	1 15/16	6,080	2 1/8	8	2 1/8	1 3/16	5 7/8	6 1/2	4 1/2	7/16	1 1/32	66.18
SKF-426	1 1/8	3,380	1 1/16	6	1 1/8	1 7/32	4 1/4	5	3 3/32	2 3/64	7/8	35.31	SKF-435	2	7,540	2 1/8	8 5/8	2 3/16	1 3/8	6 3/8	7 1/8	5	1/2	1 1/32	66.18
SKF-427	1 1/4	3,380	1 1/16	6	1 1/8	1 7/32	4 1/4	5	3 3/32	2 3/64	7/8	35.31	SKF-436	2 1/8	7,540	2 1/8	8 5/8	2 3/16	1 3/8	6 3/8	7 1/8	5	1/2	1 1/32	66.18

Four Bolt Flange

Cat. No.	Bore	Load Rating	A	B	C	D	E	J	K	Y	Price Each	Cat. No.	Bore	Load Rating	A	B	C	D	E	J	K	Y	Price Each
SKF-437	1/2	1,650	3	2 1/8	1 3/32	1 1/16	1 7/32	2 1/8	3 7/64	2 3/64	26.84	SKF-446	1 1/4	4,410	4 5/8	3 3/8	3/8	1 3/8	1 13/16	3 3/8	1 3/16	7/16	37.82
SKF-438	5/8	1,650	3	2 1/8	1 3/32	1 1/16	1 7/32	2 1/8	3 7/64	2 3/64	26.84	SKF-447	1 3/8	4,410	4 5/8	3 3/8	3/8	1 3/8	1 13/16	3 3/8	1 3/16	7/16	37.82
SKF-439	3/4	2,210	3 3/4	2 1/2	5/8	1 1/8	1 15/32	2 3/8	3/4	1 5/32	27.94	SKF-448	1 1/2	4,410	4 5/8	3 3/8	3/8	1 3/8	1 13/16	3 3/8	1 3/16	7/16	37.82
SKF-440	7/8	2,430	3 3/4	2 3/4	5/8	1 1/16	1 17/32	2 3/4	3/4	2 9/64	29.48	SKF-449	1 1/2	5,310	5 1/8	4	2 1/32	1 17/32	2 1/2	4	2 9/32	2 9/64	49.63
SKF-441	1 1/16	2,430	3 3/4	2 3/4	5/8	1 1/16	1 17/32	2 3/4	3/4	2 9/64	29.48	SKF-450	1 15/16	5,740	5 3/8	4 1/8	1 1/16	1 19/32	2 3/4	4 1/4	2 9/32	1 5/32	58.12
SKF-442	1	2,430	3 3/4	2 3/4	5/8	1 1/16	1 17/32	2 3/4	3/4	2 9/64	29.48	SKF-451	1 3/4	5,740	5 3/8	4 1/8	1 1/16	1 19/32	2 3/4	4 1/4	2 9/32	1 5/32	58.12
SKF-443	1 1/8	3,380	4 1/4	3 3/4	1 9/32	1 9/32	1 21/32	3 1/4	2 5/32	2 7/64	35.31	SKF-452	1 15/16	6,080	5 3/8	4 3/8	2 5/32	1 3/4	2 19/64	4 5/8	1 1/32	3 9/64	66.18
SKF-444	1 3/16	3,380	4 1/4	3 3/4	1 9/32	1 9/32	1 21/32	3 1/4	2 5/32	2 7/64	35.31	SKF-453	2	7,540	6 3/8	5 1/8	2 7/32	1 7/8	2 1/16	5	1 5/32	4 3/64	66.18
SKF-445	1 1/4	3,380	4 1/4	3 3/4	1 9/32	1 9/32	1 21/32	3 1/4	2 5/32	2 7/64	35.31	SKF-454	2 1/8	7,540	6 3/8	5 1/8	2 7/32	1 7/8	2 1/16	5	1 5/32	4 3/64	66.18

Two Bolt Flange

Cat. No.	Bore	Load Rating	A	B	C	D	E	J	K	Y	Price Each	Cat. No.	Bore	Load Rating	A	B	C	D	E	J	K	Y	Price Each
SKF-455	1/2	1,650	3 7/8	3	1 5/32	1 1/16	1 7/32	2 1/8	1 9/32	2 1/64	26.84	SKF-465	1 3/8	4,410	6 3/8	5 1/8	9/16	1 11/32	1 13/16	3 3/8	1 3/16	7/16	37.82
SKF-456	5/8	1,650	3 7/8	3	1 5/32	1 1/16	1 7/32	2 1/8	1 9/32	2 1/64	26.84	SKF-466	1 1/2	4,410	6 3/8	5 1/8	9/16	1 11/32	1 13/16	3 3/8	1 3/16	7/16	37.82
SKF-457	3/4	2,210	4 1/32	3 1/32	3 1/32	3 1/32	1 9/32	2 3/8	1 9/32	9/32	27.94	SKF-467	1 1/2	5,310	6 3/4	5 1/2	5/8	1 17/32	2 1/2	4	2 9/32	2 9/64	49.63
SKF-458	7/8	2,430	4 7/8	3 29/32	5/8	1 1/16	1 17/32	2 3/4	3/4	2 9/64	29.48	SKF-468	1 15/16	5,740	7 1/16	5 7/16	5/8	1 17/32	2 1/2	4 1/4	2 9/32	1 5/32	58.12
SKF-459	1 1/16	2,430	4 7/8	3 29/32	5/8	1 1/16	1 17/32	2 3/4	3/4	2 9/64	29.48	SKF-469	1 3/4	5,740	7 1/16	5 7/16	5/8	1 17/32	2 1/2	4 1/4	2 9/32	1 5/32	58.12
SKF-460	1	2,430	4 7/8	3 29/32	5/8	1 1/16	1 17/32	2 3/4	3/4	2 9/64	29.48	SKF-470	1 15/16	6,080	7 1/16	5 7/16	5/8	1 17/32	2 1/2	4 1/4	2 9/32	1 5/32	66.18
SKF-462	1 1/16	3,380	5 1/16	4 19/32	1 7/32	1 9/32	1 21/32	3 1/4	2 5/32	2 7/64	35.31	SKF-471	2	7,540	8 1/2	7 1/4	1 1/16	1 1/8	2 1/16	5	1 5/32	2 1/32	66.18
SKF-463	1 1/4	3,380	5 1/16	4 19/32	1 7/32	1 9/32	1 21/32	3 1/4	2 5/32	2 7/64	35.31	SKF-472	2 1/8	7,540	8 1/2	7 1/4	1 1/16	1 1/8	2 1/16	5	1 5/32	2 1/32	66.18
SKF-464	1 1/4	4,410	6 1/8	5 1/8	9/16	1 11/32	1 13/16	3 3/8	1 9/16	7/16	37.82												



CYLINDRICAL ROLLER THRUST BEARINGS

Cylindrical roller thrust bearings have a comparatively large contact area between the roller and raceway. They can support greater loads and accommodate much more shock than ball thrust bearings of a similar size. Cylindrical roller thrust bearings are suitable for medium to heavy-duty applications with high thrust loads and low operating coefficient of friction requirements. The .032" thrust washer is punched from steel, through hardened and polished. These washers should be fully supported on their entire abutment surface. The .126" thrust washers are made from bearing steel. The raceways are ground while the bore and outside diameter are machined. Washers sold separately from bearings.

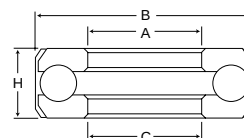
Bearing Cat. No.	INA	A	B	C	Load Rating Lbs.		Speed Limit (RPM)	Price Each 1-99	.032" Washer		.126" Washer	
					Static	Dynamic			Cat. No.	Price Each	Cat. No.	Price Each
INA-500	TC815	1/2	1 1/16	5/8	5,300	1,920	13,000	2.22	INA-560	.66	—	—
INA-505	TC1018	5/8	1 1/8	5/8	6,600	2,170	11,000	2.22	INA-565	1.72	—	—
INA-510	TC1220	3/4	1 1/4	5/8	8,000	2,410	9,500	2.24	INA-570	1.74	INA-625	1.82
INA-515	TC1423	7/8	1 1/2	5/8	10,500	2,900	8,500	2.42	INA-575	.80	INA-630	2.72
INA-520	TC1427	7/8	1 1/2	5/8	18,600	4,400	7,500	3.12	INA-580	1.14	INA-635	3.36
INA-525	TC1625	1	1 1/2	5/8	12,100	3,150	7,500	2.42	INA-585	.96	INA-640	4.38
INA-530	TC1828	1 1/8	1 3/4	5/8	16,300	3,850	6,500	2.42	INA-590	1.18	—	—
INA-535	TC2031	1 1/4	1 15/16	5/8	20,500	4,500	6,000	2.48	INA-595	1.18	INA-650	2.90
INA-540	TC2435	1 1/2	2 1/16	5/8	23,700	4,850	5,000	3.12	INA-600	1.42	INA-655	4.24
INA-545	TC2840	1 3/4	2 1/2	5/8	30,000	5,600	4,500	3.38	INA-605	1.68	INA-660	5.75
INA-550	TC3244	2	2 3/4	5/8	32,500	5,800	4,000	3.54	INA-610	1.80	INA-665	7.48

*For oil lubrication. Use 25% of value with grease lubrication.



BALL THRUST BEARINGS

Steel — Banded Assembly



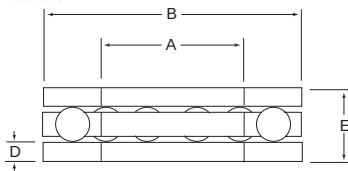
Ball thrust bearings have a comparatively small contact area between the ball and raceway. As a result, they may be operated at higher speeds with less internal friction and heat generation. Ball thrust bearings can tolerate greater misalignment and occupy less design space than roller thrust bearings. Moderate radial loads can be accommodated with some designs. Ball thrust bearings are suitable for light, medium to heavy-duty applications with high thrust loads and precision running requirements. Grooved race — single direction — oil hole in band.

Cat. No.	INA	A	B	C	H	No.	Size	Load Rating Lbs.		Speed Limit (RPM)	Price Each 1-24
								Static	Dynamic		
INA-405	D1	.503	1.219	.531	.563	10	.250	4,850	2,950	3,800	9.42
INA-410	D3	.628	1.344	.656	.563	12	.250	5,800	3,150	3,650	10.62
INA-415	D5	.753	1.469	.781	.563	13	.250	6,300	3,250	3,550	10.57
INA-420	D7	.878	1.844	.906	.625	14	.313	10,600	5,050	2,900	11.92
INA-425	D9	1.003	1.969	1.031	.625	15	.313	11,300	5,150	2,800	12.47
INA-430	D11	1.128	2.094	1.156	.625	16	.313	12,100	5,300	2,750	13.68
INA-435	D13	1.253	2.344	1.281	.625	18	.313	13,600	7,950	2,600	14.45
INA-440	D15	1.378	2.469	1.406	.625	19	.313	14,300	8,150	2,500	16.40
INA-445	D17	1.503	2.594	1.531	.625	21	.313	15,900	8,450	2,450	16.97
INA-450	D21	1.753	3.094	1.781	.813	21	.375	22,800	11,700	1,950	20.70
INA-455	D25	2.003	3.344	2.031	.813	23	.375	25,000	12,100	1,875	23.92



THRUST BEARINGS

Nylon Ball Retainer



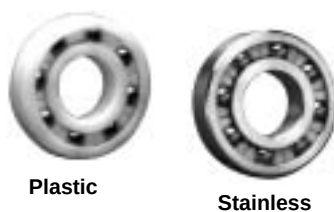
This new concept in thrust bearings provides superior performance and economical characteristics. The unique design of the molded nylon retainer captures the balls in precision molded pockets assuring smooth free turning and quiet operation. The nylon retainer is lightweight, provides natural lubricity and is corrosion resistant. Balls are precision grade 100 tolerance $\pm .0001$, $\pm .0025$ mm. The thrust washers are hardened steel providing high strength to wear ratio for long life. Available with steel or stainless steel balls. Washers are included with bearing.

Steel Cat. No.	Stainless Cat. No.	Internal Diameter		Outside Diameter		Ball No.	Size	D*	E	Load Ratings				Price Each	
		Nominal	Actual	Nominal	Actual					Steel (Lbs.)		Stainless (Lbs.)		Steel	Stainless
										@15 RPM	@5000 RPM	@15 RPM	@5000 RPM		
TQ-012	TQS-012	3/8	.128 to .133	7/16	.430 to .437	6	.0938	.050	.190 to .196	120	17	84	12	1.00	1.33
TQ-018	TQS-018	3/8	.191 to .195	7/16	.492 to .499	7	.0938	.050	.190 to .196	126	18	88	12	1.05	1.42
TQ-025	TQS-025	1/4	.253 to .258	9/16	.555 to .562	8	.0938	.050	.190 to .196	131	18	92	12	1.11	1.47
TQ-031	TQS-031	5/16	.316 to .321	9/16	.617 to .624	9	.0938	.050	.190 to .196	136	19	95	13	1.18	1.53
TQ-037	TQS-037	3/8	.378 to .383	13/16	.805 to .812	6	.1250	.062	.245 to .253	175	25	123	17	1.30	1.81
TQ-043	TQS-043	7/16	.441 to .446	7/8	.867 to .874	7	.1250	.062	.245 to .253	190	27	133	19	1.37	1.92
TQ-050	TQS-050	1/2	.503 to .508	15/16	.930 to .937	8	.1250	.062	.245 to .253	201	29	140	20	1.46	2.07
TQ-056	TQS-056	5/8	.566 to .571	1	.992 to .999	9	.1250	.062	.245 to .253	213	30	149	21	1.59	2.37
TQ-062	TQS-062	3/4	.628 to .635	1 1/8	1.115 to 1.124	6	.1563	.093	.336 to .348	251	36	175	25	2.19	3.20
TQ-068	TQS-068	13/16	.691 to .698	1 1/8	1.178 to 1.187	7	.1563	.093	.336 to .348	273	39	191	27	2.65	3.58
TQ-075	TQS-075	3/4	.753 to .760	1 1/4	1.240 to 1.249	8	.1563	.093	.336 to .348	293	42	205	29	2.77	3.79
TQ-081	TQS-081	13/16	.816 to .823	1 1/8	1.303 to 1.312	9	.1563	.093	.336 to .348	314	45	220	31	3.06	4.22
TQ-087	TQS-087	7/8	.878 to .885	1 1/8	1.365 to 1.374	10	.1563	.093	.336 to .348	328	47	196	33	3.33	4.49
TQ-093	TQS-093	15/16	.941 to .950	1 1/8	1.551 to 1.562	9	.1875	.125	.427 to .447	384	55	268	38	4.38	6.35
TQ-100	TQS-100	1	1.003 to 1.012	1 1/8	1.613 to 1.624	10	.1875	.125	.427 to .447	459	66	321	46	4.55	6.68
TQ-112	TQS-112	1 1/8	1.128 to 1.137	1 3/4	1.738 to 1.749	12	.1875	.125	.427 to .447	504	72	352	50	5.21	7.67
TQ-125	TQS-125	1 1/4	1.253 to 1.262	1 7/8	1.863 to 1.874	14	.1875	.125	.427 to .447	545	78	381	54	5.85	8.69
TQ-150	TQS-150	1 1/2	1.503 to 1.512	2 1/8	2.113 to 2.124	14	.1875	.125	.427 to .447	522	75	365	52	6.98	9.81

*Tolerance for .050 and .062 is $\pm .002$, .093 is $\pm .003$, .125 is $\pm .005$.

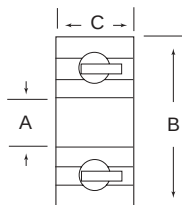
PLASTIC AND STAINLESS STEEL BALL BEARINGS

Inch and Metric



Plastic

Stainless



The plastic bearings are corrosion resistant, lightweight and offer a great deal of design flexibility. The rings are delrin, ball retainer is chemical resistant polymer, and the balls are 316 stainless, providing a lube free operation where other bearings wouldn't hold up. Non-metallic glass or polymer balls can be substituted on a special order basis. Please call for price and delivery. The stainless steel bearings are semi-precision unground type. These 316 type stainless bearings are ideal for hostile environments and wash down applications where the load is too heavy for plastic bearings. Type 316 stainless is non-magnetic and can be run without lubrication at slow speeds. Type 316 stainless provides greater corrosion resistance over 440 type stainless. Cage is made of a polymer. Metric dimensions are in millimeters.

Plastic

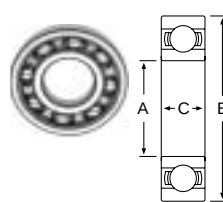
Cat. No.	Bearing Number	A	B	C	Max. RPM No Load	Load Capacity Lbs.		Price Each 1-24
						Dynamic	Static	
Inch								
NNB-01	R3	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{5}{32}$	3,167	17	11	3.20
NNB-02	R3A	$\frac{3}{16}$	$\frac{5}{8}$	.196	2,352	26	17	3.20
NNB-03	R4	$\frac{1}{4}$	$\frac{5}{8}$	.196	2,352	26	17	3.33
NNB-04	R4A	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{32}$	2,352	26	17	3.95
NNB-05	R4AW	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{32}$	2,352	26	17	3.95
NNB-06	R6	$\frac{3}{8}$	$\frac{7}{8}$	$\frac{7}{32}$	1,600	42	33	3.55
NNB-07	R6A	$\frac{3}{8}$	$\frac{7}{8}$	$\frac{9}{32}$	1,600	42	33	3.60
NNB-08	R8	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{4}$	1,142	55	43	3.65
NNB-09	R8	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{4}$	1,142	55	43	3.65
NNB-11	R8A	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{3}{8}$	1,142	55	43	3.70
NNB-13	R10B	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{7}{16}$	1,069	69	46	3.75
NNB-14	R10B	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{7}{16}$	1,069	69	46	3.75
NNB-15	R10B	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{7}{16}$	1,069	69	46	3.75
NNB-16	R12	$\frac{3}{4}$	$1\frac{5}{8}$	$\frac{5}{16}$	840	78	52	7.56
NNB-17	R16	1	2	$\frac{1}{2}$	729	92	61	11.65
Metric								
NNB-42	608	8	22	7	1,600	42	33	3.33
NNB-43	6000	10	26	8	1,600	42	33	3.69
NNB-49	6200	10	30	9	1,142	55	43	3.87
NNB-52	6203	17	40	12	840	78	52	4.54

Stainless Steel

Cat. No.	Bearing Number	A	B	C	Max. RPM No Load	Load Capacity Lbs.		Price Each 1-24
						Dynamic	Static	
Inch								
NNB-60	R4	¼	⅝	.196	2,352	89	51	17.00
NNB-62	R6	⅜	⅞	⅞ ₃₂	1,600	126	99	18.00
NNB-63	R6A	⅜	⅞	⅞ ₃₂	1,600	126	99	18.25
NNB-64	R8	½	1⅛	¼	1,142	165	129	18.75
NNB-66	R10B	½	1⅜	⅞ ₁₆	1,069	207	138	20.56
NNB-67	R10B	½	1⅜	⅞ ₁₆	1,069	207	138	20.56
NNB-68	R12	¾	1⅝	⅝ ₁₆	840	234	156	25.93
NNB-69	R16	1	2	½	729	276	183	39.17
Metric								
NNB-92	608	8	22	7	1,600	126	99	17.00
NNB-95	6002	15	32	9	1,142	165	129	18.98
NNB-96	6003	17	35	10	1,069	207	138	20.56
NNB-102	6203	17	40	12	1,069	207	138	25.93

SINGLE ROW RADIAL BALL BEARINGS

Inch and Metric



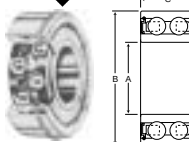
These popular bearings are used in a wide range of applications such as motors, pumps, etc. Designed to carry both radial and axial loads. Double shielded bearings have metal shields on the sides. Double sealed have two contact seals made out of synthetic rubber. Prices below are for 1-9 pieces. Please call for quantity discounts. Metric dimensions are shown in millimeters.

Bearing Designation	Shielded or Sealed				Plain		Double Shielded		Double Sealed	
	A	B	Plain C	C1	Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
Inch										
R2	⅛	⅜	⅝	⅝	NB-1010	2.31	NB-1020	1.98	NB-1015	2.31
R3	⅜	½	⅝	.196	NB-1025	3.19	NB-1035	2.75	NB-1030	3.63
R4A	¼	¾	⅝	⅝	NB-1040	2.75	NB-1050	2.20	NB-1045	2.20
R6	⅜	⅞	⅝	⅝	NB-1055	2.97	NB-1065	2.64	NB-1060	3.12
R8	½	1 ⅛	¾	⅞	NB-1070	3.78	NB-1080	3.78	NB-1075	3.85
R10	⅝	1 ⅝	⅝	1 ⅜	NB-1085	5.28	NB-1095	5.17	NB-1090	5.72
R12	¾	1 ⅞	⅞	⅞	NB-1100	5.94	NB-1105	5.83	—	—
R14	⅞	1 ⅞	¾	½	—	—	NB-1115	6.38	—	—
R16	1	2	¾	½	NB-1120	6.16	NB-1130	5.83	NB-1125	5.94
Metric										
608	8	22	7	—	INA-2005	2.05	INA-2125	2.97	INA-2250	3.80
6000	10	26	8	—	—	—	INA-2130	3.92	INA-2255	4.73
6001	12	28	8	—	INA-2015	3.58	INA-2135	4.53	INA-2260	5.07
6002	15	32	9	—	—	—	INA-2140	4.53	INA-2265	5.45
6003	17	35	10	—	—	—	INA-2145	4.73	INA-2270	5.68
6004	20	42	12	—	—	—	INA-2150	6.47	INA-2275	6.72
6005	25	47	12	—	—	—	INA-2155	5.97	INA-2280	7.58
6006	30	55	13	—	INA-2040	5.85	INA-2160	6.40	INA-2285	8.68
6200	10	30	9	—	—	—	INA-2165	2.50	INA-2290	3.00
6201	12	32	10	—	—	—	INA-2170	2.65	INA-2295	3.12
6202	15	35	11	—	INA-2055	2.63	INA-2175	2.97	INA-2300	3.43
6203	17	40	12	—	—	—	INA-2180	2.77	INA-2305	3.08
6204	20	47	14	—	INA-2065	4.13	INA-2185	3.95	INA-2310	5.15
6205	25	52	15	—	—	—	INA-2190	5.48	INA-2315	5.80
6206	30	62	16	—	INA-2075	5.97	—	—	INA-2320	7.38
6300	10	35	11	—	—	—	INA-2200	5.83	INA-2325	7.23
6301	12	37	12	—	—	—	—	—	INA-2330	4.92
6302	15	42	13	—	—	—	—	—	INA-2335	5.22
6303	17	47	14	—	—	—	—	—	INA-2340	5.55
6304	20	52	15	—	—	—	—	—	INA-2345	6.63
6305	25	62	17	—	—	—	—	—	INA-2350	9.17



DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

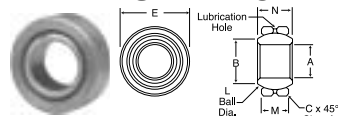
Double Sealed



Double row ball bearings are suitable for taking axial loads in both directions. Designed for use in pumps, motors, etc. All bearings are double sealed to keep dirt and other contaminants out.

Cat. No.	Bearing Number	A mm	B mm	C mm	Load (Lbs.)		Price Each 1-14
					Dynamic	Static	
INA-1150	32002RS	10	30	14.0	1,810	1,030	16.02
INA-1155	32012RS	12	32	15.9	2,390	1,320	19.63
INA-1160	32022RS	15	35	15.9	2,650	1,590	19.63
INA-1165	32032RS	17	40	17.5	3,350	2,040	20.02
INA-1170	32042RS	20	47	20.6	4,450	2,850	22.08
INA-1175	32052RS	25	52	20.6	4,850	3,350	25.20
INA-1180	32062RS	30	62	23.8	6,700	4,800	30.27

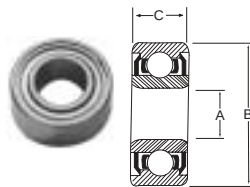
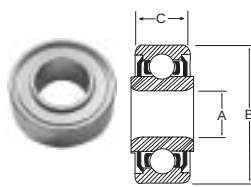
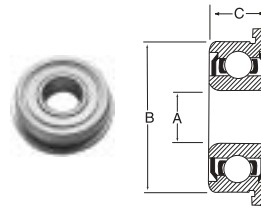
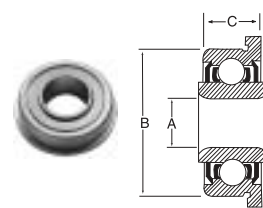
SPHERICAL BEARINGS



Swaged race, metal to metal design. Raceway made from low carbon steel. Spherical ball is hard chrome plated.

Cat. No.	Bearing Number	A	B	C	L	+/- .005 M	+/- .005 N	Load Cap. Lbs.	Price Each
STQ-60	.2500	.364	.022	.6562	.500	.250	.343	4,950	12.10
STQ-70	.3125	.419	.032	.7500	.562	.281	.375	6,475	12.10
STQ-80	.3750	.516	.032	.8125	.656	.312	.406	8,400	11.42
STQ-90	.5000	.640	.032	1.000	.781	.390	.500	13,250	12.60

DYNAROLL BEARINGS

**Standard****Standard
Extended Inner Ring****Flanged****Flanged
Extended Inner Ring**

Bearings are made of 440C stainless steel and are corrosion, fatigue and wear resistant. Temperature range is -70°F to 350°F. Bearings have steel shields. Applications for these bearings are for idler pulleys, small gear trains, pumps, tape guides, synchros and servos. These bearings meet or exceed ABEC 5 tolerances for inch sizes and P5 (ISO) for metric bearings. Radial clearance is .0002/.0005". All extended inner ring bearings are .031" wider than C dimension on inner ring. Metric dimensions are in millimeters.

Inch

Standard and Standard Extended Inner Ring

Standard Cat. No.	Standard Extended Cat. No.	A	B	C*	Max. Load Rating Lbs.	Max RPM	Price Each 1-24	
							Standard	Extended
DMB-1	—	.0469	.1562	.0937	31	120,000	8.36	—
DMB-2	—	.0550	.1875	.1094	52	110,000	8.80	—
DMB-3	DMB-36	.0781	.2500	.1406	70	80,000	8.36	7.48
DMB-4	DMB-37	.0937	.1875	.0937	43	95,000	7.92	10.56
DMB-5	DMB-38	.0937	.3125	.1406	124	71,000	7.04	7.70
DMB-6	DMB-39	.1250	.2500	.1094	64	80,000	4.62	7.04
DMB-7	DMB-40	.1250	.3125	.1406	124	71,000	4.40	5.72
DMB-8	DMB-41	.1250	.3750	.1406	144	63,000	8.36	9.68
DMB-9	DMB-42	.1250	.3750	.1562	144	63,000	4.40	6.50
DMB-10	—	.1250	.5000	.1719	144	63,000	7.48	—
DMB-11	DMB-43	.1562	.3125	.1250	81	63,000	7.04	8.04
DMB-12	DMB-44	.1875	.3125	.1250	81	63,000	6.60	7.92
DMB-13	DMB-45	.1875	.3750	.1250	160	60,000	4.62	6.60
DMB-14	DMB-46	.1875	.5000	.1960	293	50,000	4.84	6.16
DMB-15	DMB-47	.2500	.3750	.1250	84	56,000	6.60	8.80
DMB-16	DMB-48	.2500	.5000	.1875	243	50,000	4.62	6.60
DMB-17	DMB-49	.2500	.6250	.1960	335	45,000	3.92	8.36
DMB-18	DMB-50	.3125	.5000	.1562	122	48,000	7.48	7.92

*Extended inner ring bearings are .031" wider the "C" dimension on inner ring.

Metric

Standard and Flanged Extended Inner Ring

Standard Cat. No.	Flanged Cat. No.	A	B	C	Flange		Dynamic Load Cap. Lbs.	Max RPM	Price Each 1-24	
					OD	Thickness			Standard	Flanged
DMB-62	DMB-80	4	10	4.0	11.6	.8	60	56,000	7.12	9.78
DMB-63	DMB-81	4	11	4.0	12.5	1.0	98	53,000	6.24	9.24
DMB-64	DMB-82	4	12	4.0	13.5	1.0	98	53,000	6.30	9.46
DMB-65	DMB-83	4	13	5.0	15.0	1.0	133	48,000	6.54	9.64
DMB-66	DMB-84	5	8	2.5	9.2	.6	31	63,000	8.16	10.52
DMB-67	DMB-85	5	9	3.0	10.2	.6	44	60,000	7.44	9.68
DMB-68	DMB-86	5	10	4.0	11.6	.8	44	60,000	6.24	9.24
DMB-69	DMB-87	5	11	4.0	12.6	.8	73	53,000	6.54	9.64
DMB-70	DMB-88	5	13	4.0	15.0	1.0	110	50,000	6.24	9.24
DMB-71	DMB-89	5	14	5.0	16.0	1.0	135	48,000	7.44	9.58
DMB-72	DMB-90	6	10	3.0	11.2	.6	51	53,000	6.54	9.64
DMB-73	DMB-91	6	12	4.0	13.6	.8	73	50,000	6.54	9.64
DMB-74	DMB-92	6	13	5.0	15.0	1.1	110	48,000	5.64	7.82
DMB-75	DMB-93	7	14	5.0	16.0	1.1	120	45,000	7.44	9.68
DMB-76	DMB-94	8	12	3.5	13.6	.8	56	48,000	7.12	9.80
DMB-77	DMB-95	8	14	4.0	15.6	.8	83	45,000	6.54	9.64
DMB-78	DMB-96	8	16	5.0	18.0	1.1	128	43,000	6.24	9.24
DMB-79	DMB-97	9	17	5.0	19.0	1.1	136	43,000	7.44	9.50

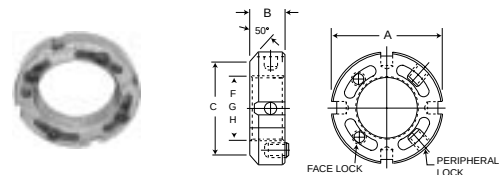
Inch

Flanged and Flanged Extended Inner Ring

Flanged Cat. No.	Flanged Extended Cat. No.	Flange		A	B	C*	Dynamic Load Rating Lbs.	Max RPM	Price Each 1-24	
		OD	Thickness						Flanged	Extended
DMB-19	—	.203	.031	.0469	.1562	.0937	31	120,000	11.00	—
DMB-20	—	.234	.031	.0550	.1875	.1094	52	110,000	9.90	—
DMB-21	—	.296	.031	.0781	.2500	.1406	70	80,000	9.24	—
DMB-22	DMB-51	.294	.031	.0937	.1875	.0937	43	95,000	7.70	9.68
DMB-23	—	.359	.031	.0937	.3125	.1406	124	71,000	7.92	—
DMB-24	DMB-52	.296	.031	.1250	.2500	.1094	64	80,000	4.40	7.92
DMB-25	DMB-53	.359	.031	.1250	.3125	.1406	124	71,000	6.16	7.48
DMB-26	DMB-54	.422	.031	.1250	.3750	.1406	144	63,000	7.48	8.36
DMB-27	DMB-55	.440	.030	.1250	.3750	.1562	144	63,000	6.60	9.50
DMB-28	DMB-56	.359	.036	.1562	.3125	.1250	81	63,000	7.92	10.24
DMB-29	DMB-57	.359	.036	.1875	.3125	.1250	81	63,000	8.36	8.36
DMB-30	DMB-58	.422	.031	.1875	.3750	.1250	160	60,000	7.92	8.36
DMB-31	—	.565	.042	.1875	.5000	.1960	293	50,000	5.72	—
DMB-32	DMB-59	.422	.036	.2500	.3750	.1250	84	56,000	8.36	9.02
DMB-33	DMB-60	.547	.045	.2500	.5000	.1875	243	50,000	5.72	7.26
DMB-34	—	.690	.042	.2500	.6250	.1960	335	45,000	5.72	—
DMB-35	DMB-61	.547	.031	.3125	.5000	.1562	122	48,000	7.04	7.04

*Extended inner ring bearings are .031" wider the "C" dimension on inner ring.

BEARING LOCKNUTS



By applying torque to the locking screw, a pressfit or wave spring effect is created locking the female threads of the locknut to the male threads of the shaft. This deflection produces a strong mechanical metal to metal lock but does not effect the squareness of the bearing face. The locking set screws do not protrude through the face or the threads of the locknut eliminating damage to the shaft or bearing. Locknuts are furnished with both spanner slots and holes. Made of low carbon steel. Other materials, metric and custom lock nuts available as special order. Please call for price and delivery.

Face Lock Cat. No.	Peripheral Lock Cat. No.	A	B	C	Major Dia. F	Pitch Dia. G	Thread Pitch Dia. H	Price Each 1-9
BLN-03	—	1.125	.343	.938	.664	.6437/.6467	32	16.82
BLN-04	BLN-04-PH	1.375	.375	1.125	.781	.7607/.7641	32	17.64
BLN-05	BLN-05-PH	1.562	.406	1.281	.969	.9487/.9521	32	18.00
BLN-06	BLN-06-PH	1.750	.406	1.500	1.173	1.1369/1.1409	18	18.36
BLN-07	—	2.062	.438	1.812	1.376	1.3399/1.3439	18	19.18
BLN-08	BLN-08-PH	2.250	.438	2.000	1.563	1.5269/1.5314	18	19.91
BLN-09	BLN-09-PH	2.531	.438	2.281	1.767	1.7309/1.7354	18	21.00
BLN-10	—	2.688	.500	2.438	1.967	1.9309/1.9354	18	22.73
—	BLN-11-PH	2.968	.500	2.656	2.157	2.1209/2.1260	18	24.00
BLN-12	—	3.156	.531	2.844	2.360	2.3239/2.3290	18	26.09

SKF TAPERED ROLLER BEARINGS

Steel



Cone Cup Set

Single row taper roller bearings are able to accommodate axial loads acting in one direction only. Under radial loads, an axial force is produced in the bearing which must be counter-

acted. Therefore, it is customary for the single row taper roller bearings to be adjusted against a second taper roller bearing. The cone/cup design offers superior strength, high load capacity and longer life. Rollers, cone and cup are made of bearing steel. Cone assembly consists of inner ring, cage and tapered rollers. Cup is the outer ring. **Note: Individual cones and cups can be made into sets (eg. SKF-1A and SKF-1B = SKF-1S) listed below.**

Individual Cones

Cat. No.	SKF	ID	OD	Width	Price Each 1-19
SKF-1A	LM11749/Q	.6875	1.340	.5750	6.44
SKF-2A	LM11949	.7500	1.560	.6550	5.63
SKF-3A	M12649	.8437	1.730	.7200	7.48
SKF-4A	L44649	1.0625	1.750	.5800	7.44
SKF-5A	LM48548	1.3750	2.280	.7200	8.18
SKF-6A	LM67048	1.2500	2.050	.6600	7.00
SKF-8A	L45449	1.1417	1.750	.5800	6.16
SKF-11A	JL69349/Q	1.4961	2.200	.6693	11.90
SKF-12A	LM12749	.8661	1.560	.6550	6.75
SKF-13A	L68149/Q	1.3772	2.090	.6600	7.96
SKF-14A	L44643	1.0000	1.750	.5800	7.50
SKF-16A	LM12749	.8661	1.560	.6550	6.75
SKF-17A	L68149/Q	1.3772	2.090	.6600	7.96

Individual Cups

Cat. No.	SKF Part No.	OD	Width	Price Each 1-19
SKF-1B	LM11710/Q	1.5700	.4218	3.24
SKF-2B	LM11910	1.7810	.4750	3.04
SKF-3B	M12610	1.9687	.5500	3.71
SKF-4B	L44610	1.9800	.4200	3.19
SKF-5B	LM48510	2.5625	.5500	3.87
SKF-6B	LM67010	2.3280	.4650	3.61
SKF-8B	L45410	1.9800	.4200	3.19
SKF-11B	JL69310/Q	2.4803	.5315	3.92
SKF-12B	LM12710	1.7810	.6550	2.92
SKF-13B	L68110	2.3280	.4700	3.45
SKF-14B	L44610	1.9800	.4200	3.19
SKF-16B	LM12711	1.8100	.4750	2.99
SKF-17B	L68111/Q	2.3622	.4700	3.63

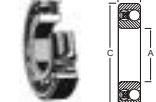
Complete Sets

Cat. No.	Consists of Reid Cat. Numbers		Basic Load Rating (Lbs.)		Speed Rating (RPM)		Price Each 1-19
	Cone	Cup	Dynamic	Static	Grease	Oil	
SKF-1S	SKF-1A	SKF-1B	4,770	4,680	9,000	13,000	9.68
SKF-2S	SKF-2A	SKF-2B	6,180	6,300	8,500	12,000	8.76
SKF-3S	SKF-3A	SKF-3B	8,600	8,540	8,000	11,000	11.22
SKF-4S	SKF-4A	SKF-4B	5,850	6,740	7,500	10,000	10.63
SKF-5S	SKF-5A	SKF-5B	10,300	12,400	5,600	7,500	12.16
SKF-6S	SKF-6A	SKF-6B	7,550	8,990	6,300	8,500	10.31
SKF-8S	SKF-8A	SKF-8B	5,850	7,310	7,000	9,500	9.75
SKF-11S	SKF-11A	SKF-11B	6,300	7,350	8,000	11,000	11.92
SKF-12S	SKF-12A	SKF-12B	6,180	6,970	8,000	11,000	9.75
SKF-13S	SKF-13A	SKF-13B	7,420	9,670	6,000	8,000	11.42
SKF-14S	SKF-14A	SKF-14B	5,850	6,740	7,500	10,000	10.63
SKF-16S	SKF-16A	SKF-16B	6,180	6,970	8,000	11,000	9.94
SKF-17S	SKF-17A	SKF-17B	7,420	9,670	6,000	8,000	11.42



SKF SELF ALIGNING BEARINGS

Metric



SKF self aligning ball bearings of the "E" design have higher load carrying capacity than standard bearings are fitted with a glass fibre reinforced polyamide 6.6 cage (TN9) as standard. Two rows of balls with a common

sphered raceway in the outer ring give the bearings their self aligning property. Suitable for applications where misalignment can arise from errors in mounting or from shaft deflection. Permissible misalignment for series 1200 is 2.5° and for series 1300 is 3°. All dimensions are in millimeters.

Cat. No.	A	B	C	Basic Load Ratings (Lbs.)		Speed Rating (RPM) Lubrication		Price Each
				Dynamic	Static	Grease	Oil	
1200 Series								
SKF-1202E	15	11	35	1,670	396	19,000	24,000	30.25
SKF-1203E	17	12	40	1,990	495	18,000	22,000	28.16
SKF-1204E	20	14	47	2,860	764	15,000	18,000	32.03
SKF-1208E	40	18	80	4,470	1,560	8,500	10,000	48.53
1300 Series								
SKF-1303E	17	14	47	2,860	764	14,000	17,000	39.53
SKF-1306E	30	19	72	5,060	1,530	9,000	11,000	55.90

GRAPHALLOY® GRAPHITE-METAL BEARINGS

Superior temperature qualities make these bearings perfect for use in ovens, dryers and heat treating furnaces. Bearings are solid graphite with molten copper impregnated into the pores. Suitable for hard shafts. The copper adds strength to the graphite and allows heat to rapidly dissipate at the contact surface, reducing wear. These bearings are self-lubricating over their entire service life. Bearings are conductive. Ideal for use in dry, wet (even submerged) and corrosive environments. Temperature range is -450°F to +750°F. RPM x total shaft load/bushing length should be less than 46,000 for optimal performance. OD and ID tolerances are +/- .001". Length tolerance is +/- .005". Other sizes, including metric are available as special order. Please call for price and delivery.

Sleeve Bearings



Cat. No.	For Shaft OD	OD	Length	Price Each 1-24
GY-02	3/8	3/8	1/4	13.68
GY-04	1/2	1/2	1/4	15.64
GY-06	3/8	3/8	3/8	18.46
GY-08	1/2	1/2	3/8	24.94
GY-11	1 1/16	1 1/16	1	32.89
GY-12	3/4	3/4	1 1/4	35.99
GY-14	7/8	1 1/4	1 3/4	41.33
GY-16	1	1 3/8	1 1/2	41.19

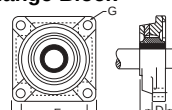
Two Bolt Unit Pillow Block



Self-aligning cast-iron pillow block contains Graphalloy® bearings described above.

Cat. No.	For Shaft OD	B	C	D	E	F	G	H	J	Price Each 1-9
GY-132	1	1 1/2	1 1/16	2 29/32	5 1/2	4 1/8	3/8	1/2	3/4	142.34
GY-192	2	2 3/8	2 1/4	4 1/16	8 1/8	6 1/4	3/8	3/4	7/8	292.00

Four Bolt Flange Block



Self-aligning cast-iron flange block contains Graphalloy® bearings described above.

Cat. No.	For Shaft OD	B	D	E	F	G	Price Each 1-9
GY-320	3/4	1	1 1/32	3 3/8	2 33/64	3/8	101.15
GY-340	1	1 1/32	1 1/8	3 3/4	2 3/4	3/8	123.28
GY-370	1 1/2	1 1/2	1 1/2	5 1/8	4 1/64	1/2	203.06



TENSION BUSHINGS

Tension bushings are hollow cylinders slit longitudinally over their entire length to permit compression and expansion, with a chamfered end to facilitate insertion. They are rolled from special high carbon spring steel with high elasticity, resilience and wear characteristics. Tension bushings are designed to replace solid steel tubular and case hardened bushings because they are close tolerance, self-retaining and thru-hard (Rockwell C 45-50). The inherent elastic material provides constant radial tension for tight fit even if the bore hole becomes enlarged. Insertion can be easily accomplished with a hammer and a drift. Ideal for high-load/low-speed operation in articulating or continuous applications. Static load rating is 125,000 lbs. minimum. Dynamic load rating is 192 in/minute and bearing pressure up to 1,000 lbs. per square inch. Operating temperature up to 630° F. Other sizes and types available as special order, call for price and delivery.

Cat. No.	OD	ID	L	Recommended Hole Size		Outside Diameter	Inside Diameter	A	Price Each
				Max.-Min.	Max.-Min.	Before Insertion	After Insertion		
VT-100	¾	½	¾	.7511 - .7500	.790 - .770	.507 - .503	.09 - .06	4.15	
VT-102	¾	½	1	.7511 - .7500	.790 - .770	.507 - .503	.09 - .06	4.84	
VT-104	1	¾	¾	1.0013 - 1.0000	1.040 - 1.020	.757 - .753	.12 - .08	4.76	
VT-106	1	¾	1	1.0013 - 1.0000	1.040 - 1.020	.757 - .753	.12 - .08	5.27	
VT-108	1¼	1	½	1.2513 - 1.2500	1.290 - 1.270	1.007 - 1.003	.12 - .08	4.55	
VT-110	1¼	1	1	1.2513 - 1.2500	1.290 - 1.270	1.007 - 1.003	.12 - .08	6.29	
VT-112	1½	1¼	1	1.5015 - 1.5000	1.540 - 1.520	1.257 - 1.253	.12 - .08	6.80	
VT-114	1½	1¼	1½	1.5015 - 1.5000	1.540 - 1.520	1.257 - 1.253	.12 - .08	9.05	
VT-116	1¾	1½	¾	1.7515 - 1.7500	1.790 - 1.770	1.507 - 1.503	.12 - .08	6.69	
VT-118	1¾	1½	1½	1.7515 - 1.7500	1.790 - 1.770	1.507 - 1.503	.12 - .08	10.45	
VT-120	2	1½	2	2.0015 - 2.0000	2.040 - 2.020	1.512 - 1.504	.15 - .10	17.78	
VT-122	2½	2	1	2.5018 - 2.5000	2.556 - 2.531	2.012 - 2.004	.15 - .10	12.36	
VT-124	3	2½	2	3.0018 - 3.0000	3.056 - 3.032	2.516 - 2.504	.15 - .10	38.09	

GRAPHITE PLUGGED SLEEVE BEARINGS

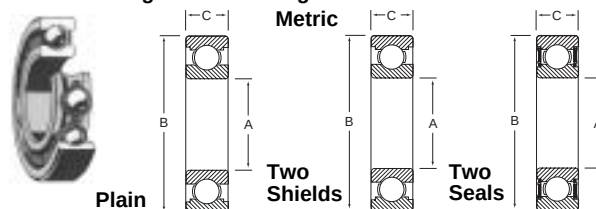


Graphite plugged bearings are self-lubricating and operate at higher temperatures than standard self-lubricating bearings. Graphite plugs go through the high strength manganese bronze bearings for lubrication inside and outside of the bearing. Maximum operating temperature is 570°F.

Cat. No.	Nominal ID	Actual ID	Nominal OD	Actual OD	Length	Price Each
GO-105	1/2	.5006/.5013	3/4	.7503/.7508	1/2	7.93
GO-110	1/2	.5006/.5013	3/4	.7503/.7508	3/4	9.22
GO-115	1/2	.5006/.5013	3/4	.7503/.7508	1	10.43
GO-120	5/8	.6256/.6263	7/8	.8753/.8758	3/4	8.95
GO-125	5/8	.6256/.6263	7/8	.8753/.8758	1	10.08
GO-130	5/8	.6256/.6263	7/8	.8753/.8758	1 1/2	12.30
GO-135	3/4	.7506/.7513	1 1/8	1.1253/1.1258	3/4	10.28
GO-140	3/4	.7506/.7513	1 1/8	1.1253/1.1258	1	11.60
GO-145	3/4	.7506/.7513	1 1/8	1.1253/1.1258	1 1/2	14.67
GO-150	7/8	.8758/.8766	1 1/4	1.2503/1.2508	3/4	10.40
GO-155	7/8	.8758/.8766	1 1/4	1.2503/1.2508	1	11.77
GO-160	7/8	.8758/.8766	1 1/4	1.2503/1.2508	1 1/4	13.35
GO-165	7/8	.8758/.8766	1 1/4	1.2503/1.2508	1 1/2	14.95
GO-170	1	1.0008/1.0016	1 3/8	1.3754/1.3760	3/4	9.93
GO-175	1	1.0008/1.0016	1 3/8	1.3754/1.3760	1	11.13
GO-180	1	1.0008/1.0016	1 3/8	1.3754/1.3760	1 1/4	12.48
GO-185	1	1.0008/1.0016	1 3/8	1.3754/1.3760	1 1/2	13.87
GO-190	1	1.0008/1.0016	1 3/8	1.3754/1.3760	1 3/4	15.27
GO-195	1	1.0008/1.0016	1 3/8	1.3754/1.3760	2	16.53
GO-200	1	1.0008/1.0016	1 1/2	1.5004/1.5010	3/4	11.60
GO-205	1	1.0008/1.0016	1 1/2	1.5004/1.5010	1	13.22
GO-210	1	1.0008/1.0016	1 1/2	1.5004/1.5010	1 1/2	16.90
GO-215	1	1.0008/1.0016	1 1/2	1.5004/1.5010	2	20.12
GO-220	1 1/4	1.2510/1.2520	1 3/8	1.6254/1.6260	1	13.00
GO-225	1 1/4	1.2510/1.2520	1 3/8	1.6254/1.6260	1 1/4	14.67
GO-230	1 1/4	1.2510/1.2520	1 3/8	1.6254/1.6260	1 1/2	16.53
GO-235	1 1/4	1.2510/1.2520	1 3/8	1.6254/1.6260	1 3/4	18.10
GO-240	1 1/4	1.2510/1.2520	1 3/8	1.6254/1.6260	2	19.63
GO-245	1 1/2	1.5010/1.5020	2	2.0004/2.0010	1	15.50
GO-250	1 1/2	1.5010/1.5020	2	2.0004/2.0010	1 1/4	17.45
GO-255	1 1/2	1.5010/1.5020	2	2.0004/2.0010	1 1/2	19.85
GO-260	1 1/2	1.5010/1.5020	2	2.0004/2.0010	1 3/4	21.78
GO-265	1 1/2	1.5010/1.5020	2	2.0004/2.0010	2	23.68
GO-270	1 3/4	1.7510/1.7520	2 1/4	2.2504/2.2512	1 1/4	19.10
GO-275	1 3/4	1.7510/1.7520	2 1/4	2.2504/2.2512	1 1/2	21.60
GO-280	1 3/4	1.7510/1.7520	2 1/4	2.2504/2.2512	1 3/4	23.68
GO-285	1 3/4	1.7510/1.7520	2 1/4	2.2504/2.2512	2	25.70
GO-290	1 3/4	1.7510/1.7520	2 1/4	2.2504/2.2512	2 1/2	30.15
GO-295	1 3/4	1.7510/1.7520	2 1/4	2.2504/2.2512	3	34.95
GO-300	1 3/4	1.7510/1.7520	2 1/4	2.2504/2.2512	3 1/2	39.57
GO-305	1 3/4	1.7510/1.7520	2 1/4	2.2504/2.2512	4	44.52
GO-310	2	2.0010/2.0020	2 1/2	2.5004/2.5012	1 1/4	20.30
GO-315	2	2.0010/2.0020	2 1/2	2.5004/2.5012	1 1/2	23.25
GO-320	2	2.0010/2.0020	2 1/2	2.5004/2.5012	2	27.80
GO-325	2	2.0010/2.0020	2 1/2	2.5004/2.5012	2 1/2	33.00
GO-330	2	2.0010/2.0020	2 1/2	2.5004/2.5012	3	38.13

SKF DEEP GROOVE BALL BEARINGS

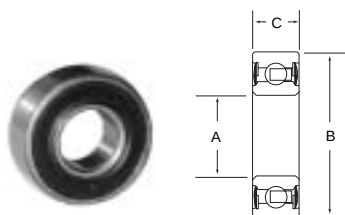
Single Row Bearing For Electric Motors



Single row deep groove ball bearings have deep uninterrupted raceways and a high degree of conformity between balls and raceways. This enables them to carry axial loads in both directions, in addition to radial loads, even at high speeds. Bearings with shields or seals at both sides are filled with a grease which has good rust inhibiting properties suitable for operating temperatures of -22°F to +230°F. All bearings have a pressed cage of sheet steel and are available either plain, shields on both sides (2 Z), or two rubber seals on both sides (2 RS). All dimensions are in millimeters.

					Basic Load Rating Lbs.		Speed Rating RPM		Price Each
Cat. No.	SKF	A	B	C	Dynamic	Static	Grease	Oil	
Plain									
SKF-01	6200JEM	10	30	9	1,140	531	24,000	30,000	7.10
SKF-02	6201JEM	12	32	10	1,550	697	22,000	28,000	7.30
SKF-03	6202JEM	15	35	11	1,750	843	19,000	24,000	7.90
SKF-04	6203JEM	17	40	12	2,150	1,070	17,000	20,000	6.60
SKF-05	6204JEM	20	47	14	2,860	1,470	15,000	18,000	8.07
SKF-06	6205JEM	25	52	15	3,150	1,750	12,000	15,000	12.65
SKF-07	6206JEM	30	62	16	4,380	2,520	10,000	13,000	13.04
SKF-08	6207JEM	35	72	17	5,730	3,440	9,000	11,000	18.00
SKF-09	6208JEM	40	80	18	6,900	4,270	8,500	10,000	28.35
SKF-010	6209JEM	45	85	19	7,460	4,860	7,500	9,000	33.92
SKF-011	6210JEM	50	90	20	7,890	5,220	7,000	8,500	33.81
Two Shields									
SKF-012	6200-2ZJEM	10	30	9	1,140	531	24,000	30,000	7.41
SKF-013	6201-2ZJEM	12	32	10	1,550	697	22,000	28,000	7.64
SKF-014	6202-2ZJEM	15	35	11	1,750	843	19,000	24,000	9.08
SKF-015	6203-2ZJEM	17	40	12	2,150	1,070	17,000	20,000	7.35
SKF-016	6204-2ZJEM	20	47	14	2,860	1,470	15,000	18,000	10.08
SKF-017	6205-2ZJEM	25	52	15	3,150	1,750	12,000	15,000	13.04
SKF-018	6206-2ZJEM	30	62	16	4,380	2,520	10,000	13,000	14.39
SKF-019	6207-2ZJEM	35	72	17	5,730	3,440	9,000	11,000	20.06
SKF-020	6208-2ZJEM	40	80	18	6,900	4,270	8,500	10,000	30.76
SKF-021	6209-2ZJEM	45	85	19	7,460	4,860	7,500	9,000	39.82
SKF-022	6210-2ZJEM	50	90	20	7,890	5,220	7,000	8,500	44.33
Two Seals									
SKF-023	6200-2RSJEM	10	30	9	1,140	531	17,000	—	8.05
SKF-024	6201-2RSJEM	12	32	10	1,550	697	15,000	—	9.17
SKF-025	6202-2RSJEM	15	35	11	1,750	843	13,000	—	7.76
SKF-026	6203-2RSJEM	17	40	12	2,150	1,070	12,000	—	8.34
SKF-027	6204-2RSJEM	20	47	14	2,860	1,470	10,000	—	10.38
SKF-028	6205-2RSJEM	25	52	15	3,150	1,750	8,500	—	15.71
SKF-029	6206-2RSJEM	30	62	16	4,380	2,520	7,500	—	16.37
SKF-030	6207-2RSJEM	35	72	17	5,730	3,440	6,300	—	27.32
SKF-031	6208-2RSJEM	40	80	18	6,900	4,270	5,600	—	35.35
SKF-032	6209-2RSJEM	45	85	19	7,460	4,860	5,000	—	41.29
SKF-033	6210-2RSJEM	50	90	20	7,890	5,220	4,000	—	48.97

SKF NICE® BALL BEARINGS



Precision ground on all contact surfaces. Careful heat treatment provides a uniform and exact degree of hardness for maximum life. A ball retainer is used to increase the range of allowable speeds by reducing ball-to-ball contact friction. Bearings are supplied grease packed. Recommended for medium loads and for maximum speeds in the range of 5,000 rpm. ID and OD tolerances are +.0000/-.0005". Width tolerance is +.0000/-.005".

Double Sealed Cat. No.	Double Shield Cat. No.	A	B	C	Load Capacity		Price Each	
					Dynamic	Static	Sealed	Shield
SKF-1603DC*	SKF-1603DS	.3125	.8750	.2813	644	255	9.62	8.10
SKF-1604DC*	SKF-1604DS	.3750	.8750	.2813	644	255	9.62	8.10
SKF-1605DC	SKF-1605DS	.3125	.9063	.3125	698	300	9.48	8.10
SKF-1606DC	SKF-1606DS	.3750	.9063	.3125	698	300	9.62	8.10
SKF-1607DC	SKF-1607DS	.4375	.9063	.3125	698	300	9.62	8.10
SKF-1614DC	SKF-1614DS	.3750	1.1250	.3750	1,200	475	9.57	8.60
SKF-1615DC	SKF-1615DS	.4375	1.1250	.3750	1,200	475	9.57	8.60
SKF-1616DC	SKF-1616DS	.5000	1.1250	.3750	1,200	475	9.57	8.60
SKF-1621DC	SKF-1621DS	.5000	1.3750	.4375	1,878	850	11.22	9.57
SKF-1623DC	SKF-1623DS	.6250	1.3750	.4375	1,878	850	11.22	9.57
SKF-1628DC	SKF-1628DS	.6250	1.6250	.5000	2,600	1,010	13.82	12.72
SKF-1630DC	SKF-1630DS	.7500	1.6250	.5000	2,600	1,010	13.82	12.72
SKF-1633DC	SKF-1633DS	.6250	1.7500	.5000	2,600	1,025	13.82	12.72
SKF-1635DC	SKF-1635DS	.7500	1.7500	.5000	2,600	1,025	13.82	12.72
SKF-1638DC**	SKF-1638DS	.7500	2.0000	.5625	2,967	1,350	17.10	15.22
SKF-1640DC**	SKF-1640DS	.8750	2.0000	.5625	2,967	1,350	17.10	15.22
SKF-1641DC**	SKF-1641DS	1.0000	2.0000	.5625	2,967	1,350	16.50	14.68
SKF-1652DC***	SKF-1652DS	1.1250	2.5000	.6250	3,864	2,120	23.15	20.02
SKF-1654DC***	SKF-1654DS	1.2500	2.5000	.6250	3,864	2,120	23.15	20.02
SKF-1657DC***	SKF-1657DS	1.2500	2.5625	.6875	5,360	2,620	29.90	26.95

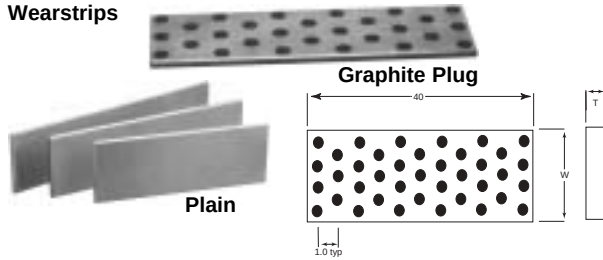
*Width is .3438".

**OD tolerance +.0000/-.0006".

***Multi-part seals. OD tolerance +.0000/-.0006".

SELF LUBE WEARSTRIPS AND BUSHINGS

Wearstrips



Selflube wearstrips provide a very effective and economical means for controlling and guiding linear motion especially in applications where large loads are present such as dies, molds and heavy machinery. Made of solid aluminum bronze and are 40 inches in length. Available with self-lubricating graphite plugs or plain. Wearstrips are furnished semi-finished and are intended to be cut to size and finished by customer. Other sizes in 40" lengths are available as special order. Please call for price and delivery.

Graphite Plugs Cat. No.	Plain Cat. No.	±.001 T	±.010 W	Weight Lbs.	Price Each		Graphite Plugs Cat. No.	Plain Cat. No.	±.001 T	±.010 W	Weight Lbs.	Price Each	
					Graphite	Plain						Graphite	Plain
—	SLB-200	¼	3	8.51	—	164.00	SLB-111	SLB-211	½	2	11.34	228.50	121.60
—	SLB-201	¼	4	11.34	—	217.20	SLB-112	SLB-212	½	2½	14.18	270.75	149.60
—	SLB-202	¼	6	17.02	—	301.30	SLB-113	SLB-213	½	3	17.02	295.00	180.80
SLB-103	SLB-203	⅜	1½	6.38	183.25	92.00	SLB-114	SLB-214	½	4	22.69	338.00	239.60
SLB-104	SLB-204	⅜	2	8.51	215.50	119.20	SLB-115	—	⅝	2	14.18	251.25	—
SLB-105	SLB-205	⅜	2½	10.64	244.75	146.80	SLB-116	—	⅝	3	21.27	305.50	—
SLB-106	SLB-206	⅜	3	12.76	275.00	172.40	SLB-117	—	⅝	4	28.36	375.75	—
—	SLB-207	⅜	4	17.02	—	221.60	SLB-118	—	¾	2	17.02	265.25	—
—	SLB-208	⅜	6	25.52	—	318.00	SLB-119	—	¾	3	25.52	336.50	—
—	SLB-209	⅜	8	34.03	—	451.20	SLB-120	—	¾	4	34.03	419.75	—
SLB-110	SLB-210	½	1½	8.51	199.25	93.60	SLB-121	—	¾	5	42.56	504.00	—

Note: Graphite plugs are on 1" centers to facilitate cutting and mounting. Drill mounting holes either between or through graphite plugs. When going through a plug, first break out graphite with a center punch and you'll have a prespotted hole.

Bushings

Bushings are made of aluminum bronze and are used for dies and molds. Bushings come with graphite plugs or plain. Tolerance on the ID and OD is +.0005/-.0000". Tolerance on the length is +.000/- .060".

Straight Type

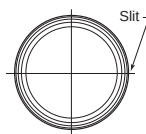


Graphite Plugs Cat. No.	Plain Cat. No.	Nominal ID	D	A	L	Price Each		Graphite Plugs Cat. No.	Plain Cat. No.	Nominal ID	D	A	L	Price Each	
						Graphite	Plain							Graphite	Plain
SLB-301	SLB-350	¾	.7505	1.1255	.875	27.57	13.25	SLB-311	SLB-360	1	1.0005	1.3755	3.000	37.55	22.53
SLB-302	SLB-351	¾	.7505	1.1255	1.375	28.28	14.00	SLB-312	SLB-361	1¼	1.2505	1.6255	1.250	25.25	15.15
SLB-303	—	¾	.7505	1.1255	1.500	28.95	—	SLB-313	SLB-362	1¼	1.2505	1.6255	1.375	26.07	15.50
SLB-304	—	¾	.8755	1.2505	1.250	25.85	—	SLB-314	SLB-363	1¼	1.2505	1.6255	1.500	25.95	15.64
SLB-305	—	¾	.8755	1.2505	1.500	30.45	—	SLB-315	SLB-364	1¼	1.2505	1.6255	1.750	27.15	16.29
SLB-306	SLB-355	1	1.0005	1.3755	1.250	22.85	14.14	SLB-316	SLB-365	1¼	1.2505	1.6255	1.875	27.97	17.50
SLB-307	SLB-356	1	1.0005	1.3755	1.375	23.35	14.50	SLB-317	SLB-366	1¼	1.2505	1.6255	2.000	28.30	16.98
SLB-308	SLB-357	1	1.0005	1.3755	1.500	24.95	14.78	SLB-318	SLB-367	1¼	1.2505	1.6255	3.000	34.45	20.67
SLB-309	SLB-358	1	1.0005	1.3755	1.750	26.95	16.17	SLB-319	SLB-368	1½	1.5005	2.0005	1.250	27.75	16.65
SLB-310	SLB-359	1	1.0005	1.3755	2.000	29.10	17.46	SLB-320	SLB-369	1½	1.5005	2.0005	1.375	28.30	17.25
								SLB-321	SLB-370	1½	1.5005	2.0005	1.500	28.60	17.16
								SLB-322	SLB-371	1½	1.5005	2.0005	1.750	30.10	18.06
								SLB-323	SLB-372	1½	1.5005	2.0005	1.875	31.88	19.13
								SLB-324	SLB-373	1½	1.5005	2.0005	2.000	31.90	19.14
								SLB-325	SLB-374	1½	1.5005	2.0005	3.000	39.55	23.76
								SLB-326	—	2	2.0005	2.5005	1.250	35.15	—
								SLB-327	SLB-375	2	2.0005	2.5005	1.500	38.00	22.80
								SLB-328	SLB-376	2	2.0005	2.5005	2.000	41.45	24.87
								SLB-329	SLB-377	2	2.0005	2.5005	2.500	46.20	27.72
								SLB-330	SLB-378	2	2.0005	2.5005	3.000	51.70	31.02
								SLB-331	SLB-379	2	2.0005	2.5005	3.875	64.83	40.00

Shoulder Type



Graphite Plugs Cat. No.	Plain Cat. No.	Nominal ID	Price Each					SLB-430	SLB-431	SLB-432	SLB-433	SLB-434	SLB-435	SLB-436	SLB-437	SLB-438	SLB-439	SLB-440	SLB-441	SLB-442	SLB-443	SLB-444	SLB-445	SLB-446	SLB-447	SLB-448	SLB-449	SLB-450	SLB-451	SLB-452	SLB-453	SLB-454	SLB-455	SLB-456	SLB-457	SLB-458	SLB-459	SLB-460	SLB-461	SLB-462	SLB-463	SLB-464	SLB-465	SLB-466	SLB-467	SLB-468	SLB-469	SLB-470	SLB-471	SLB-472	SLB-473	SLB-474	SLB-475	SLB-476	SLB-477	SLB-478	SLB-479	SLB-480	SLB-481	SLB-482	SLB-483	SLB-484	SLB-485	SLB-486	SLB-487	SLB-488	SLB-489	SLB-490	SLB-491	SLB-492	SLB-493	SLB-494	SLB-495	SLB-496	SLB-497	SLB-498	SLB-499	SLB-500	SLB-501	SLB-502	SLB-503	SLB-504	SLB-505	SLB-506	SLB-507	SLB-508	SLB-509	SLB-510	SLB-511	SLB-512	SLB-513	SLB-514	SLB-515	SLB-516	SLB-517	SLB-518	SLB-519	SLB-520	SLB-521	SLB-522	SLB-523	SLB-524	SLB-525	SLB-526	SLB-527	SLB-528	SLB-529	SLB-530	SLB-531	SLB-532	SLB-533	SLB-534	SLB-535	SLB-536	SLB-537	SLB-538	SLB-539	SLB-540	SLB-541	SLB-542	SLB-543	SLB-544	SLB-545	SLB-546	SLB-547	SLB-548	SLB-549	SLB-550	SLB-551	SLB-552	SLB-553	SLB-554	SLB-555	SLB-556	SLB-557	SLB-558	SLB-559	SLB-560	SLB-561	SLB-562	SLB-563	SLB-564	SLB-565	SLB-566	SLB-567	SLB-568	SLB-569	SLB-570	SLB-571	SLB-572	SLB-573	SLB-574	SLB-575	SLB-576	SLB-577	SLB-578	SLB-579	SLB-580	SLB-581	SLB-582	SLB-583	SLB-584	SLB-585	SLB-586	SLB-587	SLB-588	SLB-589	SLB-590	SLB-591	SLB-592	SLB-593	SLB-594	SLB-595	SLB-596	SLB-597	SLB-598	SLB-599	SLB-600	SLB-601	SLB-602	SLB-603	SLB-604	SLB-605	SLB-606	SLB-607	SLB-608	SLB-609	SLB-610	SLB-611	SLB-612	SLB-613	SLB-614	SLB-615	SLB-616	SLB-617	SLB-618	SLB-619	SLB-620	SLB-621	SLB-622	SLB-623	SLB-624	SLB-625	SLB-626	SLB-627	SLB-628	SLB-629	SLB-630	SLB-631	SLB-632	SLB-633	SLB-634	SLB-635	SLB-636	SLB-637	SLB-638	SLB-639	SLB-640	SLB-641	SLB-642	SLB-643	SLB-644	SLB-645	SLB-646	SLB-647	SLB-648	SLB-649	SLB-650	SLB-651	SLB-652	SLB-653	SLB-654	SLB-655	SLB-656	SLB-657	SLB-658	SLB-659	SLB-660	SLB-661	SLB-662	SLB-663	SLB-664	SLB-665	SLB-666	SLB-667	SLB-668	SLB-669	SLB-670	SLB-671	SLB-672	SLB-673	SLB-674	SLB-675	SLB-676	SLB-677	SLB-678	SLB-679	SLB-680	SLB-681	SLB-682	SLB-683	SLB-684	SLB-685	SLB-686	SLB-687	SLB-688	SLB-689	SLB-690	SLB-691	SLB-692	SLB-693	SLB-694	SLB-695	SLB-696	SLB-697	SLB-698	SLB-699	SLB-700	SLB-701	SLB-702	SLB-703	SLB-704	SLB-705	SLB-706	SLB-707	SLB-708	SLB-709	SLB-710	SLB-711	SLB-712	SLB-713	SLB-714	SLB-715	SLB-716	SLB-717	SLB-718	SLB-719	SLB-720	SLB-721	SLB-722	SLB-723	SLB-724	SLB-725	SLB-726	SLB-727	SLB-728	SLB-729	SLB-730	SLB-731	SLB-732	SLB-733	SLB-734	SLB-735	SLB-736	SLB-737	SLB-738	SLB-739	SLB-740	SLB-741	SLB-742	SLB-743	SLB-744	SLB-745	SLB-746	SLB-747	SLB-748	SLB-749	SLB-750	SLB-751	SLB-752	SLB-753	SLB-754	SLB-755	SLB-756	SLB-757	SLB-758	SLB-759	SLB-760	SLB-761	SLB-762	SLB-763	SLB-764	SLB-765	SLB-766	SLB-767	SLB-768	SLB-769	SLB-770	SLB-771	SLB-772	SLB-773	SLB-774	SLB-775	SLB-776	SLB-777	SLB-778	SLB-779	SLB-780	SLB-781	SLB-782	SLB-783	SLB-784	SLB-785	SLB-786	SLB-787	SLB-788	SLB-789	SLB-790	SLB-791	SLB-792	SLB-793	SLB-794	SLB-795	SLB-796	SLB-797	SLB-798	SLB-799	SLB-800	SLB-801	SLB-802	SLB-803	SLB-804	SLB-805	SLB-806	SLB-807	SLB-808	SLB-809	SLB-810	SLB-811	SLB-812	SLB-813	SLB-814	SLB-815	SLB-816	SLB-817	SLB-818	SLB-819	SLB-820	SLB-821	SLB-822	SLB-823	SLB-824	SLB-825	SLB-826	SLB-827	SLB-828	SLB-829	SLB-830	SLB-831	SLB-832	SLB-833	SLB-834	SLB-835	SLB-836	SLB-837	SLB-838	SLB-839	SLB-840	SLB-841	SLB-842	SLB-843	SLB-844	SLB-845	SLB-846	SLB-847	SLB-848	SLB-849	SLB-850	SLB-851	SLB-852	SLB-853	SLB-854	SLB-855	SLB-856	SLB-857	SLB-858	SLB-859	SLB-860	SLB-861	SLB-862	SLB-863	SLB-864	SLB-865	SLB-866	SLB-867	SLB-868	SLB-869	SLB-870	SLB-871	SLB-872	SLB-873	SLB-874	SLB-875	SLB-876	SLB-877	SLB-878	SLB-879	SLB-880	SLB-881	SLB-882	SLB-883	SLB-884	SLB-885	SLB-886	SLB-887	SLB-888	SLB-889	SLB-890	SLB-891	SLB-892	SLB-893	SLB-894	SLB-895	SLB-896	SLB-897	SLB-898	SLB-899	SLB-900	SLB-901	SLB-902	SLB-903	SLB-904	SLB-905	SLB-906	SLB-907	SLB-908	SLB-909	SLB-910	SLB-911	SLB-912	SLB-913	SLB-914	SLB-915	SLB-916	SLB-917	SLB-918	SLB-919	SLB-920	SLB-921	SLB-922	SLB-923	SLB-924	SLB-925	SLB-926	SLB-927	SLB-928	SLB-929	SLB-930	SLB-931	SLB-932	SLB-933	SLB-934	SLB-935	SLB-936	SLB-937	SLB-938	SLB-939	SLB-940	SLB-941	SLB-942	SLB-943	SLB-944	SLB-945	SLB-946	SLB-947	SLB-948	SLB-949	SLB-950	SLB-951	SLB-952	SLB-953	SLB-954	SLB-955	SLB-956	SLB-957	SLB-958	SLB-959	SLB-960	SLB-961	SLB-962	SLB-963	SLB-964	SLB-965	SLB-966	SLB-967	SLB-968	SLB-969	SLB-970	SLB-971	SLB-972	SLB-973	SLB-974	SLB-975	SLB-976	SLB-977	SLB-978	SLB-979	SLB-980	SLB-981	SLB-982	SLB-983	SLB-984	SLB-985	SLB-986	SLB-987	SLB-988	SLB-989	SLB-990	SLB-991	SLB-992	SLB-993	SLB-994	SLB-995	SLB-996	SLB-997	SLB-998	SLB-999	SLB-1000	SLB-1001	SLB-1002	SLB-1003	SLB-1004	SLB-1005	SLB-1006	SLB-1007	SLB-1008	SLB-1009	SLB-1010	SLB-1011	SLB-1012	SLB-1013	SLB-1014	SLB-1015	SLB-1016	SLB-1017	SLB-1018	SLB-1019	SLB-1020	SLB-1021	SLB-1022	SLB-1023	SLB-1024	SLB-1025	SLB-1026	SLB-1027	SLB-1028	SLB-1029	SLB-1030	SLB-1031	SLB-1032	SLB-1033	SLB-1034	SLB-1035	SLB-1036	SLB-1037	SLB-1038	SLB-1039	SLB-1040	SLB-1041	SLB-1042	SLB-1043	SLB-1044	SLB-1045	SLB-1046	SLB-1047	SLB-1048	SLB-1049	SLB-1050	SLB-1051	SLB-1052	SLB-1053	SLB-1054	SLB-1055	SLB-1056	SLB-1057	SLB-1058	SLB-1059	SLB-1060	SLB-1061	SLB-1062	SLB-1063	SLB-1064	SLB-1065	SLB-1066	SLB-1067	SLB-1068	SLB-1069	SLB-1070	SLB-1071	SLB-1072	SLB-1073	SLB-1074	SLB-1075	SLB-1076	SLB-1077	SLB-1078	SLB-1079	SLB-1080	SLB-1081	SLB-1082	SLB-1083	SLB-1084	SLB-1085	SLB-1086	SLB-1087	SLB-1088	SLB-1089	SLB-1090	SLB-1091	SLB-1092	SLB-1093	SLB-1094	SLB-1095	SLB-1096	SLB-1097	SLB-1098	SLB-1099	SLB-1100	SLB-1101	SLB-1102	SLB-1103	SLB-1104	SLB-1105	SLB-1106	SLB-1107	SLB-1108	SLB-1109	SLB-1110	SLB-1111	SLB-1112	SLB-1113	SLB-1114	SLB-1115	SLB-1116	SLB-1117	SLB-1118	SLB-1119	SLB-1120	SLB-1121	SLB-1122	SLB-1123	SLB-1124	SLB-1125	SLB-1126	SLB-1127	SLB-1128	SLB-1129	SLB-1130	SLB-1131	SLB-1132	SLB-1133	SLB-1134	SLB-1135	SLB-1136	SLB-1137	SLB-1138	SLB-1139	SLB-1140	SLB-1141	SLB-1142	SLB-1143	SLB-1144	SLB-1145	SLB-1146	SLB-1147	SLB-1148	SLB-1149	SLB-1150	SLB-1151	SLB-1152	SLB-1153	SLB-1154	SLB-1155	SLB-1156	SLB-1157	SLB-1158	SLB-1159	SLB-1160	SLB-1161	SLB-1162	SLB-1163	SLB-1164	SLB-1165	SLB-1166	SLB-1167	SLB-1168	SLB-1169	SLB-1170	SLB-1171	SLB-1172	SLB-1173	SLB-1174	SLB-1175	SLB-1176	SLB-1177	SLB-1178	SLB-1179	SLB-1180	SLB-1181	SLB-1182	SLB-1183	SLB-1184	SLB-1185	SLB-1186	SLB-1187	SLB-1188	SLB-1189	SLB-1190	SLB-1191	SLB-1192	SLB-1193	SLB-1194	SLB-1195	SLB-1196	SLB-1197	SLB-1198	SLB-1199	SLB-1200	SLB-1201	SLB-1202	SLB-1203	SLB-1204	SLB-1205	SLB-1206	SLB-1207	SLB-1208	SLB-1209	SLB-1210	SLB-1211	SLB-1212	SLB-1213	SLB-1214	SLB-1215	SLB-1216	SLB-1217	SLB-1218	SLB-1219	SLB-1220	SLB-1221	SLB-1222	SLB-1223	SLB-1224	SLB-1225	SLB-1226	SLB-1227	SLB-1228	SLB-1229	SLB-1230	SLB-1231	SLB-1232	SLB-1233	SLB-1234	SLB-1235	SLB-1236	SLB-1237	SLB-1238	SLB-1239	SLB-1240	SLB-1241	SLB-1242	SLB-1243	SLB-1244	SLB-1245	SLB-1246	SLB-1247	SLB-1248	SLB-1249	SLB-1250	SLB-1251	SLB-1252	SLB-1253	SLB-1254	SLB-1255	SLB-1256	SLB-1257	SLB-1258	SLB-1259	SLB-1260	SLB-1261	SLB-1262	SLB-1263	SLB-1264	SLB-1265	SLB-1266	SLB-1267	SLB-1268	SLB-1269	SLB-1270	SLB-1271	SLB-1272	SLB-1273	SLB-1274	SLB-1275	SLB-1276	SLB-1277	SLB-1278	SLB-1279	SLB-1280	SLB-1281	SLB-1282	SLB-1283	SLB-1284	SLB-1285	SLB-1286	SLB-1287	SLB-1288	SLB-1
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METRIC DRY BEARINGS

Steel backed, sintered bronze PTFE and lead lined bearings. These bearings are used in dry or semi-lubricated

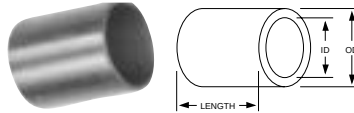
environments. It can be a substitute for conventional bearings where it is desired to save space, to provide for a maintenance-free bearing, or to provide superior shock and impact load resistance. All dimensions are in millimeters.

- Maintains a low coefficient of friction and usable without lubrication at high load, low speed operations with excellent wear resistance.
- Wide applicable temperature range from -319°F to 518°F.
- Satisfactory with rotating, oscillating and axial sliding motions with excellent dimensional stability.
- Excellent resistance against almost any chemical.
- Thin wall thickness and lightweight construction enable compact designs.

Cat. No.	OD	ID	Shaft Dia. Range	Lgth	Price Each	Cat. No.	OD	ID	Shaft Dia. Range	Lgth	Price Each	Cat. No.	OD	ID	Shaft Dia. Range	Lgth	Price Each
GO-401	5	3	-.025/- .034	3	.34	GO-479	25	22	-.025/- .046	25	1.24	GO-557	70	65	+.035/+ .005	30	4.74
GO-402	5	3	-.025/- .034	4	.34	GO-480	25	22	-.025/- .046	30	1.40	GO-558	70	65	+.035/+ .005	40	5.84
GO-403	5	3	-.025/- .034	5	.36	GO-481	27	24	-.025/- .046	15	.98	GO-559	70	65	+.035/+ .005	50	6.94
GO-404	5	3	-.025/- .034	6	.36	GO-482	27	24	-.025/- .046	20	1.16	GO-560	70	65	+.035/+ .005	60	11.42
GO-405	6	4	-.025/- .037	4	.36	GO-483	27	24	-.025/- .046	25	1.34	GO-561	70	65	+.035/+ .005	70	9.16
GO-406	6	4	-.025/- .037	6	.36	GO-484	27	24	-.025/- .046	30	1.52	GO-562	75	70	+.035/+ .005	30	5.52
GO-407	6	4	-.025/- .037	8	.36	GO-485	28	25	-.025/- .046	10	.96	GO-563	75	70	+.035/+ .005	35	6.32
GO-408	7	5	-.025/- .037	4	.36	GO-486	28	25	-.025/- .046	12	.98	GO-564	75	70	+.035/+ .005	40	6.74
GO-409	7	5	-.025/- .037	5	.38	GO-487	28	25	-.025/- .046	15	1.00	GO-565	75	70	+.035/+ .005	50	7.90
GO-410	7	5	-.025/- .037	6	.38	GO-488	28	25	-.025/- .046	20	1.18	GO-566	75	70	+.035/+ .005	60	9.08
GO-411	7	5	-.025/- .037	8	.38	GO-489	28	25	-.025/- .046	25	1.56	GO-567	75	70	+.035/+ .005	70	10.26
GO-412	7	5	-.025/- .037	10	.38	GO-490	28	25	-.025/- .046	30	1.56	GO-568	75	70	+.035/+ .005	80	12.88
GO-413	8	6	-.025/- .037	5	.38	GO-491	28	25	-.025/- .046	35	1.90	GO-569	80	75	+.035/+ .005	30	6.58
GO-414	8	6	-.025/- .037	6	.38	GO-492	30	26	-.025/- .046	15	1.00	GO-570	80	75	+.035/+ .005	35	6.74
GO-415	8	6	-.025/- .037	7	.38	GO-493	30	26	-.025/- .046	20	1.26	GO-571	80	75	+.035/+ .005	40	7.04
GO-416	8	6	-.025/- .037	8	.38	GO-494	30	26	-.025/- .046	30	1.66	GO-572	80	75	+.035/+ .005	50	8.34
GO-417	8	6	-.025/- .037	10	.40	GO-495	32	28	-.025/- .046	12	1.18	GO-573	80	75	+.035/+ .005	60	9.56
GO-418	9	7	-.025/- .040	5	.38	GO-496	32	28	-.025/- .046	15	1.20	GO-574	80	75	+.035/+ .005	80	12.10
GO-419	9	7	-.025/- .040	7	.38	GO-497	32	28	-.025/- .046	20	1.40	GO-575	85	80	+.035/+ .005	40	8.12
GO-420	9	7	-.025/- .040	8	.40	GO-498	32	28	-.025/- .046	25	1.60	GO-576	85	80	+.035/+ .005	50	9.44
GO-421	9	7	-.025/- .040	10	.42	GO-499	32	28	-.025/- .046	30	1.80	GO-577	85	80	+.035/+ .005	60	10.74
GO-422	9	7	-.025/- .040	12	.42	GO-500	34	30	-.025/- .046	12	1.26	GO-578	85	80	+.035/+ .005	80	13.58
GO-423	10	8	-.025/- .040	5	.42	GO-501	34	30	-.025/- .046	15	1.30	GO-579	85	80	+.035/+ .005	100	16.04
GO-424	10	8	-.025/- .040	6	.42	GO-502	34	30	-.025/- .046	20	1.54	GO-580	90	85	+.035/+ .000	40	11.12
GO-425	10	8	-.025/- .040	7	.42	GO-503	34	30	-.025/- .046	25	1.78	GO-581	90	85	+.035/+ .000	50	11.24
GO-426	10	8	-.025/- .040	8	.42	GO-504	34	30	-.025/- .046	30	2.02	GO-582	90	85	+.035/+ .000	60	11.28
GO-427	10	8	-.025/- .040	10	.44	GO-505	34	30	-.025/- .046	35	2.26	GO-583	90	85	+.035/+ .000	80	15.50
GO-428	10	8	-.025/- .040	12	.48	GO-506	34	30	-.025/- .046	40	2.50	GO-584	90	85	+.035/+ .000	100	16.96
GO-429	11	9	-.025/- .040	10	.46	GO-507	35	31	-.025/- .050	15	1.44	GO-585	95	90	+.035/+ .000	40	12.64
GO-430	12	10	-.025/- .040	6	.44	GO-508	35	31	-.025/- .050	25	1.82	GO-586	95	90	+.035/+ .000	60	12.70
GO-431	12	10	-.025/- .040	7	.46	GO-509	35	31	-.025/- .050	40	3.16	GO-587	95	90	+.035/+ .000	90	18.54
GO-432	12	10	-.025/- .040	8	.46	GO-510	36	32	-.025/- .050	20	1.60	GO-588	95	90	+.035/+ .000	100	18.86
GO-433	12	10	-.025/- .040	10	.48	GO-511	36	32	-.025/- .050	25	1.84	GO-589	100	95	+.035/+ .000	40	12.52
GO-434	12	10	-.025/- .040	12	.50	GO-512	36	32	-.025/- .050	30	2.08	GO-590	100	95	+.035/+ .000	50	12.64
GO-435	12	10	-.025/- .040	15	.52	GO-513	36	32	-.025/- .050	40	2.56	GO-591	100	95	+.035/+ .000	60	13.14
GO-436	12	10	-.025/- .040	20	.58	GO-514	39	35	-.025/- .050	12	1.44	GO-592	100	95	+.035/+ .000	100	19.26
GO-437	14	12	-.025/- .043	6	.42	GO-515	39	35	-.025/- .050	20	1.72	GO-593	105	100	+.035/+ .000	50	15.10
GO-438	14	12	-.025/- .043	8	.46	GO-516	39	35	-.025/- .050	25	1.72	GO-594	105	100	+.035/+ .000	95	16.76
GO-439	14	12	-.025/- .043	10	.50	GO-517	39	35	-.025/- .050	30	2.30	GO-595	105	100	+.035/+ .000	95	21.48
GO-440	14	12	-.025/- .043	12	.52	GO-518	39	35	-.025/- .050	35	2.60	GO-596	105	100	+.035/+ .000	100	21.66
GO-441	14	12	-.025/- .043	15	.52	GO-519	39	35	-.025/- .050	40	2.88	GO-597	110	105	+.035/+ .000	60	15.56
GO-442	14	12	-.025/- .043	20	.64	GO-520	39	35	-.025/- .050	50	3.46	GO-598	110	105	+.035/+ .000	100	22.54
GO-443	15	13	-.025/- .043	8	.50	GO-521	42	38	-.025/- .050	20	2.00	GO-599	115	110	+.035/+ .000	60	17.78
GO-444	15	13	-.025/- .043	10	.52	GO-522	42	38	-.025/- .050	25	2.24	GO-600	115	110	+.035/+ .000	70	20.74
GO-445	15	13	-.025/- .043	15	.60	GO-523	42	38	-.025/- .050	30	2.44	GO-601	115	110	+.035/+ .000	95	24.88
GO-446	16	14	-.025/- .043	10	.52	GO-524	42	38	-.025/- .050	35	2.84	GO-602	115	110	+.035/+ .000	100	24.92
GO-447	16	14	-.025/- .043	12	.54	GO-525	42	38	-.025/- .050	40	3.06	GO-603	120	115	+.035/+ .000	60	18.24
GO-448	16	14	-.025/- .043	15	.60	GO-526	44	40	-.025/- .050	12	1.64	GO-604	120	115	+.035/+ .000	100	25.64
GO-449	16	14	-.025/- .043	20	.66	GO-527	44	40	-.025/- .050	15	1.94	GO-605	125	120	+.035/+ .000	50	20.14
GO-450	17	15	-.025/- .043	8	.52	GO-528	44	40	-.025/- .050	20	1.94	GO-606	125	120	+.035/+ .000	60	20.16
GO-451	17	15	-.025/- .043	10	.52	GO-529	44	40	-.025/- .050	25	2.28	GO-607	125	120	+.035/+ .000	70	22.62
GO-452	17	15	-.025/- .043	12	.56	GO-530	44	40	-.025/- .050	30	2.58	GO-608	125	120	+.035/+ .000	95	27.92
GO-453	17	15	-.025/- .043	15	.60	GO-531	44	40	-.025/- .050	35	2.90	GO-609	125	120	+.035/+ .000	100	27.98
GO-454	17	15	-.025/- .043	20	.68	GO-532	44	40	-.025/- .050	40	3.22	GO-610	130	125	+.035/+ .005	80	24.70
GO-455	17	15	-.025/- .043	25	.74	GO-533	44	40	-.025/- .050	50	3.86	GO-611	130	125	+.035/+ .005	100	29.16
GO-456	18	16	-.025/- .043	10	.64	GO-534	50	45	-.025/- .050	20	2.26	GO-612	135	130	+.035/+ .005	50	18.20
GO-457	18	16	-.025/- .043	12	.68	GO-535	50	45	-.025/- .050	25	2.28	GO-613	135	130	+.035/+ .005	80	27.36
GO-458	18	16	-.025/- .043	15	.74	GO-536	50	45	-.025/- .050	30	2.96	GO-614	135	130	+.035/+ .005	100	31.60
GO-459	18	16	-.025/- .043	20	.84	GO-537	50	45	-.025/- .050	35	3.30	GO-615	140	135	+.035/+ .005	80	27.98
GO-460	18	16	-.025/- .043	25	.92	GO-538	50	45	-.025/- .050	40	3.64	GO-616	140	135	+.035/+ .005	100	32.32
GO-461	19	17	-.025/- .043	15	.74	GO-539	50	45	-.025/- .050	45	4.34	GO-617	145	140	+.035/+ .005	50	30.42
GO-462	20	18	-.025/- .043	10	.64	GO-540	55	50	-.025/- .050	20	2.68	GO-618	145	140	+.035/+ .005	80	30.94
GO-463	20	18	-.025/- .043	12	.68	GO-541	55	50	-.025/- .050	25	3.10	GO-619	145	140	+.035/+ .005	100	35.48
GO-464	20	18	-.025/- .043	15	.74	GO-542	55	50	-.025/- .050	30	3.54	GO-620	155	150	+.035/+ .005	50	34.76
GO-465	20	18	-.025/- .043	20	.84	GO-543	55	50	-.025/- .050	40	4.38	GO-621	155	150	+.035/+ .005	80	34.78
GO-466	20	18	-.025/- .043	25	.92	GO-544	55	50	-.025/- .050	50	5.22						

OIL-IMPREGNATED BRONZE SLEEVE BEARINGS

Tolerance		
ID OR OD		
up to 1.5"		+.000/- .001
1.5" - 2.5"		+.000/- .0015
Length		
up to 1.5"		+/- .005
1.5" - 3"		+/- .0075

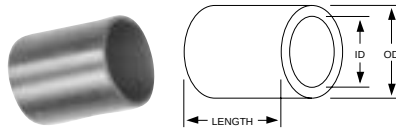


Provides continuous distribution of oil across the bearing face from microscopic pores in the materials. Ideal for situations where lubrication is impractical. Other sizes available as special order. Please call for price and delivery.

ID	OD	Length	Cat. No.	Price Each 1-11	ID	OD	Length	Cat. No.	Price Each 1-11	ID	OD	Length	Cat. No.	Price Each 1-11	ID	OD	Length	Cat. No.	Price Each 1-11
1/8" ID x 1/4" OD Nominal					5/16" ID x 1/2" OD Nominal					1/2" ID x 5/8" OD Nominal (Cont.)					3/4" ID x 1.00" OD Nominal				
.1270	.2520	1/8	OIB-5	.78	.3125	.4400	1/4	OIB-120	.72	.5015	.6280	1	OIB-250	.82	.7520	1.0025	1/2	OIB-380	.85
.1270	.2520	1/4	OIB-10	.69	.3125	.4400	3/8	OIB-125	.72	.5015	.6280	1 1/4	OIB-255	.83	.7530	1.0030	5/8	OIB-385	1.15
.1280	.2530	3/8	OIB-15	.69	.3125	.4400	1/2	OIB-130	.80	.5015	.7520	1/2	OIB-260	.75	.7520	1.0025	3/4	OIB-390	.98
9/16" ID x 3/4" OD Nominal					3/8" ID x 1/2" OD Nominal					5/8" ID x 3/4" OD Nominal					7/8" ID x 1 1/8" OD Nominal				
.1885	.2520	1/4	OIB-20	.69	.3765	.5030	1/4	OIB-145	.80	.5020	.7530	3/8	OIB-265	.79	.8760	1.1280	3/4	OIB-415	1.73
.1875	.2500	3/8	OIB-30	.75	.3765	.5030	3/8	OIB-150	.81	.5015	.7520	3/4	OIB-270	.83	.8760	1.1280	1	OIB-420	1.86
.1885	.2520	1/2	OIB-35	.75	.3765	.5030	1/2	OIB-155	1.04	.5015	.7520	1	OIB-275	1.00	.8760	1.1280	1 1/4	OIB-425	1.59
1/4" ID x 5/8" OD Nominal					1/2" ID x 3/4" OD Nominal					3/4" ID x 1" OD Nominal					1.00" ID x 1 1/4" OD Nominal				
.2505	.3145	1/4	OIB-45	.72	.3765	.5030	3/4	OIB-160	1.08	.5635	.7535	3/4	OIB-285	.75	1.001	1.2520	1/2	OIB-430	1.52
.2505	.3145	1/2	OIB-50	.78	.3765	.5030	1	OIB-165	1.06	.5635	.7535	1 1/4	OIB-295	.98	1.001	1.2520	3/4	OIB-435	1.77
3/8" ID x 3/4" OD Nominal					3/4" ID x 1 1/4" OD Nominal					1/2" ID x 3/4" OD Nominal					1.001" ID x 1 1/4" OD Nominal				
.2520	.3770	1/4	OIB-55	.72	.3765	.5030	1 1/4	OIB-170	.93	.6270	.7530	1/2	OIB-305	.64	1.001	1.2520	1	OIB-440	1.92
.2520	.3770	3/8	OIB-60	.75	.3765	.5030	1	OIB-175	1.04	.6270	.7530	3/4	OIB-310	.67	1.001	1.2520	1 1/4	OIB-445	2.25
.2520	.3770	1/2	OIB-65	.80	.3765	.5030	3/4	OIB-180	1.11	.6270	.7530	1	OIB-315	.70	1.001	1.2520	1 1/2	OIB-450	2.43
.2520	.3770	3/4	OIB-70	.81	.3765	.5655	1	OIB-195	.68	.6270	.7530	3/8	OIB-320	.72	1 1/4" ID x 1 1/2" OD Nominal				
.2520	.3770	3/8	OIB-75	.89	.3765	.5655	1 1/4	OIB-205	.87	.6270	.7530	1	OIB-325	.82	1.252	1.5020	1	OIB-460	2.22
.2520	.3770	1	OIB-80	.96	7/8" ID x 3/4" OD Nominal					5/8" ID x 3/4" OD Nominal					1 1/2" ID x 1 3/4" OD Nominal				
1/2" ID x 1 1/2" OD Nominal					.4390	.6270	1/2	OIB-210	.68	.6250	.8150	1/2	OIB-340	.67	1.503	1.7540	1	OIB-475	2.86
.2520	.5015	1/2	OIB-85	.93	.4390	.6270	3/4	OIB-215	.71	.6270	.8150	3/4	OIB-345	.79	2.00" ID x 2 3/8" OD Nominal				
.2520	.5015	3/4	OIB-90	.96	.4390	.6270	1	OIB-220	.83	.6270	.8150	1	OIB-350	.93	2.003	2.3790	1 1/2	OIB-485	5.14
5/8" ID x 3/8" OD Nominal					1/2" ID x 3/8" OD Nominal					3/4" ID x 7/8" OD Nominal					2.003	2.3790	2	OIB-490	6.66
.3135	.3770	3/8	OIB-100	.80	.5015	.6280	3/8	OIB-225	.59	.7530	.8780	1/2	OIB-355	.69					
.3135	.3770	1/2	OIB-105	.78	.5015	.6280	1/2	OIB-230	.79	.7510	.8780	3/4	OIB-360	.70					
.3135	.3770	3/4	OIB-110	.80	.5015	.6280	3/4	OIB-235	.65	.7510	.8780	1	OIB-365	.71					
.3135	.3770	1	OIB-115	.80	.5015	.6280	1	OIB-245	.79	.7510	.8780	1	OIB-370	.85					

CDA 932/SAE 660 CAST BRONZE BEARINGS

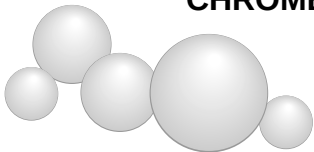
Tolerance		
ID: 3" or Less		
Over 3"		+/- .0015
OD: 3" or Less		
Over 3"		+.002 to .003
Length:		+/- .005



For use in heavier applications. These cast bearings resist wear, corrosion and impact better than standard bronze bearings. 44,000 psi tensile strength, 72 brinell hardness.

ID	OD	Length	Cat. No.	Price Each 1-11	ID	OD	Length	Cat. No.	Price Each 1-11	ID	OD	Length	Cat. No.	Price Each 1-11	ID	OD	Length	Cat. No.	Price Each 1-11
5/16	1/2	3/4	CBB-5	2.02	3/4	1	2	CBB-80	4.24	1	1 1/2	4	CBB-155	12.73	1 1/2	2	3	CBB-235	12.09
5/16	1/2	1	CBB-10	2.18	3/4	1 1/2	1 1/2	CBB-90	4.76	1 1/4	1 3/8	4	CBB-140	8.87	1 1/2	2	4	CBB-240	14.78
5/16	1/2	1 1/4	CBB-15	2.36	1	1 1/4	3/4	CBB-95	3.56	1 1/4	1 1/2	1 1/2	CBB-165	4.62	1 1/2	2 1/4	3	CBB-250	16.33
1/2	3/8	1	CBB-20	2.38	1	1 1/4	1	CBB-100	3.95	1 1/4	1 1/2	2	CBB-170	5.13	1 3/4	2	3	CBB-245	8.49
1/2	3/8	1 1/4	CBB-25	2.51	1	1 1/4	1 1/4	CBB-105	4.24	1 1/4	1 1/2	3	CBB-175	6.49	1 3/4	2 1/4	1 1/4	CBB-255	9.40
1/2	3/4	3/4	CBB-30	2.85	1	1 1/4	1 1/2	CBB-110	4.60	1 1/4	1 1/2	4	CBB-180	8.15	2	2 1/4	2	CBB-260	7.60
5/8	3/4	1 1/4	CBB-35	3.00	1	1 1/4	2	CBB-115	5.05	1 1/4	1 1/2	2 1/2	CBB-190	7.15	2	2 3/8	3	CBB-270	13.04
5/8	1	2	CBB-60	4.13	1	1 1/4	2 1/2	CBB-120	5.45	1 3/8	1 5/8	3	CBB-195	6.84	2	2 1/2	2	CBB-275	13.07
5/8	1 1/8	1 1/2	CBB-85	5.25	1	1 1/4	3	CBB-125	6.15	1 1/2	1 3/4	1	CBB-200	4.33	2	2 1/2	3	CBB-285	15.85
3/4	3/8	1	CBB-45	2.73	1	1 3/8	1	CBB-130	4.13	1 1/2	1 3/4	1 1/4	CBB-205	5.00	2 1/2	3	5	CBB-300	31.53
3/4	1	1	CBB-65	3.38	1	1 3/8	1 1/2	CBB-135	5.11	1 1/2	1 3/4	3	CBB-215	7.24	3	3 1/2	4	CBB-305	32.44
3/4	1	1 1/4	CBB-70	3.58	1	1 1/2	2	CBB-145	6.93	1 1/2	1 7/8	2	CBB-220	6.62					
3/4	1	1 3/4	CBB-75	4.04	1	1 1/2	3	CBB-150	9.35	1 1/2	2	2 1/2	CBB-230	9.84					

CHROME AND STAINLESS STEEL BALLS



Grade Sphericity Diameter Tolerance Hardness: Rockwell C	Chrome	Stainless
	25	100
	.000025"	.0001"
	+/- .0001"	+/- .0005"
	60-67	55-61

AISI 52100 chrome alloy steel balls offer high hardness and excellent resistance to wear and deformation. Used by leading manufacturers of precision ball bearings where precise spherical and tolerance accuracy are required. Stainless steel balls are AISI type 440. Stainless balls offer maximum uniform hardness and outstanding corrosion resistance for valve and bearing applications. **See page 394 for tungsten carbide and ceramic balls.** Other sizes available as special order. Please call for price and delivery.

Diameter	Chrome Cat. No.	Stainless Cat. No.	Price Each Chrome	Price Each Stainless	Diameter	Chrome Cat. No.	Stainless Cat. No.	Price Each Chrome	Price Each Stainless	Diameter	Chrome Cat. No.	Price Each
3/16	BB-5	—	.03	—	1/2	—	BB-255	—	.55	1 1/8	BB-175	8.03
5/16	BB-25	—	.06	—	3/4	BB-95	—	.64	—	1 1/4	BB-185	10.10
3/8	BB-35	BB-235	.09	.24	1 1/2	—	BB-365	—	15.68	2	BB-190	16.45

CAM FOLLOWERS

Steel and Stainless Steel Needle Bearing

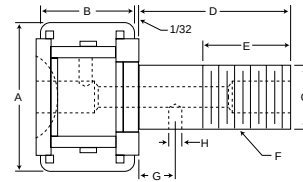
Ideally suited for many cam or track roller applications where loads and shock are moderate. The needle bearings are sealed to prevent contamination and retain lubrication.

Regular Duty Steel – The inner and outer race are made of high carbon chrome bearing steel through hardened and ground. The studs are low carbon steel. The steel type are slotted. Hex socket types are available as special order. Please call for price and delivery.

Regular Duty Stainless Steel – Made of 440C stainless steel. Extends your bearing life and reduces maintenance cost. They use food grade lubricant. The stainless type have a hex socket.

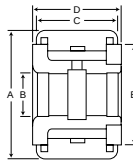
Heavy Duty Steel – Similar to the regular duty but the studs are thicker. The heavy duty steel type have a hex socket. Other sizes available as special order. Please call for price and delivery.

Stud Type Followers



Steel Cat. No.	Stainless Cat. No.	Size	+0.000 -.001 A	+0.000 -.005 B	+0.010 -.000 C	+0.010 -.010 D	E	F	G	H	Dynamic Rating Lbs.		Static Rating Lbs.		Price Each 1-24	
			Steel	Stainless	Steel	Stainless					Steel	Stainless				
Regular Duty																
CCF-5	CCF-350	½	.500	.375	.190	.625	.250	10-32	—	—	680	544	790	632	6.57	38.25
CCF-10	CCF-355	¾	.625	.438	.250	.750	.312	¼-28	—	—	995	796	1,215	796	6.53	38.00
CCF-15	CCF-360	¾	.750	.500	.375	.875	.375	¾-24	¼	⅜	1,660	1,328	2,065	1,652	5.96	38.48
CCF-20	—	¾	.875	.500	.375	.875	.375	¾-24	¼	⅜	1,660	—	2,065	—	6.10	—
CCF-25	CCF-370	1	1.000	.625	.438	1.000	.500	7/16-20	¼	⅜	2,225	1,780	2,065	2,448	7.47	46.69
CCF-30	—	1 1/8	1.125	.625	.438	1.000	.500	7/16-20	¼	⅜	2,225	—	3,060	—	7.81	—
CCF-35	CCF-380	1 ¼	1.250	.750	.500	1.250	.625	½-20	⅝	⅜	3,930	3,144	4,250	3,400	9.31	56.00
CCF-40	—	1 ⅜	1.375	.750	.500	1.250	.625	½-20	⅝	⅜	3,930	—	4,250	—	9.80	—
CCF-45	CCF-390	1 ½	1.500	.875	.625	1.500	.750	⅝-18	⅝	⅜	4,840	3,872	5,640	4,572	11.10	68.58
CCF-50	—	1 ⅝	1.625	.875	.625	1.500	.750	⅝-18	⅝	⅜	4,840	—	5,640	—	11.31	—
CCF-55	CCF-400	1 ¾	1.750	1.000	.750	1.750	.875	¾-16	7/16	⅜	6,385	5,108	7,920	6,336	14.17	85.32
CCF-60	—	1 ⅞	1.875	1.000	.750	1.750	.875	¾-16	7/16	⅜	6,385	—	7,920	—	14.63	—
CCF-65	CCF-410	2	2.000	1.250	.875	2.000	1.000	⅞-14	½	⅝	8,090	6,472	10,570	8,456	20.24	118.25
CCF-70	—	2 ¼	2.250	1.250	.875	2.000	1.000	⅞-14	½	⅝	8,090	—	10,570	—	21.44	—
CCF-75	—	2 ½	2.500	1.500	1.000	2.250	1.125	1-14	⅝	⅝	11,720	—	16,450	—	26.96	—
CCF-80	—	3	3.000	1.750	1.250	2.500	1.250	1 ¼-12	⅝	⅝	15,720	—	24,910	—	54.64	—
Heavy Duty																
CCF-500	—	½	.500	.375	.250	.625	.250	¼-28	—	—	680	—	1,580	—	7.94	—
CCF-505	—	¾	.625	.438	.313	.750	.312	⅝-24	—	—	955	—	2,480	—	7.87	—
CCF-510	—	¾	.750	.500	.438	.875	.375	7/16-20	¼	⅜	1,660	—	4,130	—	7.96	—
CCF-515	—	¾	.875	.500	.438	.875	.375	7/16-20	¼	⅜	1,660	—	4,130	—	8.14	—
CCF-520	—	1	1.000	.625	.625	1.000	.500	⅝-18	¼	⅜	2,225	—	6,120	—	9.73	—
CCF-525	—	1 ¼	1.250	.750	.750	1.250	.625	¾-16	⅝	⅜	3,930	—	8,500	—	11.71	—
CCF-530	—	1 ⅝	1.375	.750	.750	1.250	.625	¾-16	⅝	⅜	3,930	—	8,500	—	12.36	—
CCF-535	—	1 ½	1.500	.875	.875	1.500	.750	⅞-14	⅝	⅜	4,840	—	11,280	—	14.46	—
CCF-540	—	1 ¾	1.750	1.000	1.000	1.750	.875	1-14	7/16	⅜	6,385	—	15,840	—	17.96	—
CCF-545	—	2	2.000	1.250	1.125	2.000	1.000	1 ⅝-12	½	⅝	8,090	—	21,140	—	24.86	—
CCF-550	—	2 ¼	2.250	1.250	1.125	2.000	1.000	1 ⅝-12	½	⅝	8,090	—	21,140	—	26.26	—
CCF-555	—	2 ½	2.500	1.500	1.250	2.250	1.125	1 ¼-12	⅝	⅝	11,720	—	32,900	—	32.21	—

Yoke Type Rollers



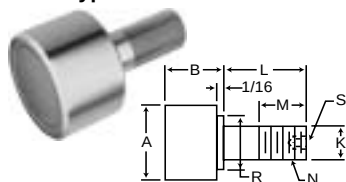
Similar in construction to the followers above. Can support heavier loads because stud deflection is not a factor. Bearings are sealed.

Steel Cat. No.	Stainless Cat. No.	Size	+0.000	+0.0002	+0.000	+0.005	E	Oil Hole Dia.	Dynamic Rating Lbs.		Static Rating Lbs.		Price Each 1-24	
			-0.001	-0.0004	-0.005	-0.010			Steel	Stainless	Steel	Stainless	Steel	Stainless
			A	B	C	D								
CCF-105	CCF-430	¾	.750	.2500	.500	.5625	⅝	⅜	1,660	1,328	4,130	3,304	6.91	33.23
CCF-110	—	¾	.875	.2500	.500	.5625	⅝	⅜	1,660	—	4,130	—	7.08	—
CCF-115	CCF-440	1	1.000	.3125	.625	.6875	29/32	⅜	2,225	1,780	6,120	4,896	8.42	40.43
CCF-120	—	1⅛	1.125	.3125	.625	.6875	29/32	⅜	2,225	—	6,120	—	8.45	—
CCF-125	CCF-450	1¼	1.250	.3750	.750	.8125	1	⅜	3,930	3,144	8,500	6,800	9.29	44.66
CCF-130	—	1⅝	1.375	.3750	.750	.8125	1	⅜	3,930	—	8,500	—	9.74	—
CCF-135	CCF-460	1½	1.500	.4375	.875	.9375	1⅛	⅜	4,840	3,872	11,280	9,024	11.26	54.12
CCF-145	CCF-470	1¾	1.750	.5000	1.000	1.0625	1¼	⅜	6,385	5,180	15,840	12,672	14.25	68.43
CCF-150	—	1⅞	1.875	.5000	1.000	1.0625	1¼	⅜	6,385	—	15,840	—	14.46	—
CCF-155	—	2	2.000	.6250	1.250	1.3125	1½	⅜	8,090	—	21,140	—	19.09	—
CCF-160	—	2¼	2.250	.6250	1.250	1.3125	1½	⅜	8,090	—	21,140	—	20.43	—
CCF-165	—	2½	2.500	.7500	1.500	1.5625	1¾	⅝	11,720	—	32,900	—	26.83	—
CCF-170	—	3	3.000	1.0000	1.750	1.8125	2¼	⅝	15,720	—	49,820	—	48.88	—

RADIAL/THRUST CAM FOLLOWERS

These radial/thrust bearings are capable of handling combined radial and thrust loads. They are tightly sealed for use in high moisture or dusty environments. They also run at much higher speeds than needle bearings. Made of steel. Yoke type and eccentric stud configurations available as special order. Please call for price and delivery.

Plain Type

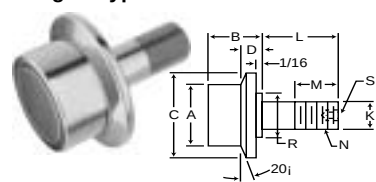


Ideal for simple radial loads or to handle side loads.

Cat. No.	+.000 -.001		+.000 -.001		L	M	N	R	S	Dynamic Load*		Price Each 1-24
	A	B	K	L						Radial	Thrust	
CCF-205	1.50	1.188	.625	1.50	.750	.750	5/8-18	.750	5/16	2,750	1,700	29.72
CCF-210	1.75	1.188	.750	1.75	.875	.875	3/4-16	1.000	5/16	2,750	1,700	31.89
CCF-215	2.00	1.688	.875	2.00	1.125	.875	7/8-14	1.000	5/16	3,820	2,380	34.14
CCF-225	2.50	1.688	1.000	2.25	1.500	1.14	1-14	1.250	1/2	5,180	3,185	38.74
CCF-230	3.00	2.000	1.250	2.50	1.750	1 1/4-12	1.750	1.750	1/2	14,300	5,790	49.85
CCF-240	4.00	2.000	1.250	2.75	1.750	1 1/4-12	1.750	1.750	1/2	14,300	5,790	75.29

*Load rating based on 500 hours L10 life at 33 1/3 RPM.

Flanged Type

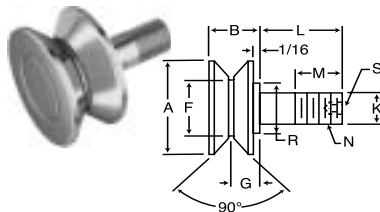


Guidance in two planes for thrust loads.

Cat. No.	A	B	C	D	K	L	M	N	R	S	Dynamic Load*		Price Each 1-24
											Radial	Thrust	
CCF-260	1.50	1.188	2.188	.344	.625	1.50	.750	7/8-18	.750	5/16	2,750	1,700	31.22
CCF-265	1.75	1.188	2.438	.344	.750	1.75	.875	7/4-16	1.000	5/16	2,750	1,700	33.68
CCF-270	2.00	1.688	2.688	.594	.875	2.00	1.125	7/4-14	1.000	5/16	3,820	2,380	35.62
CCF-275	2.25	1.688	2.938	.594	.875	2.00	1.125	7/8-14	1.000	5/16	3,820	2,380	38.43
CCF-280	2.50	1.688	3.188	.594	1.000	2.25	1.500	1-14	1.250	—	5,180	3,185	41.66
CCF-285	3.00	2.000	3.938	.594	1.250	2.50	1.750	1 1/4-12	1.750	1/2	14,300	5,790	69.31

*Load rating based on 500 hours L10 life at 33 1/3 RPM.

V-Groove



For V-track application.

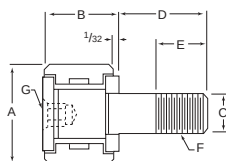
Cat. No.	A	B	F	G	K	L	M	N	R	S	Dynamic Load*		Price Each 1-24
											Radial	Thrust	
CCF-305	2.50	1.313	1.50	.688	.750	1.75	.875	¾-16	1.00	⅝ ₁₆	2,750	1,700	56.44
CCF-310	3.50	1.688	2.25	.875	.875	2.00	1.125	⅞-14	1.00	⅝ ₁₆	5,180	3,185	60.40

*Load rating based on 500 hours L10 life at 33 1/3 RPM.

SELF-LUBRICATING CAM FOLLOWERS

Steel Bronze Bushing Bearing

Cam Followers



Self-lubricating cam follower provides continuous, dependable lubrication for the life of the unit. Heat-treated steel roller with machined lubrication reservoirs are pre-filled with specially developed lube mixtures. Lubrication penetrates through a porous inner sintered bronze bushing by capillary action. Particularly well suited for applications with light to moderate loads operating at medium to higher speeds. Frequently used in food processing, farm and construction, machine tools, metalworking and packaging. Can be used in high humidity applications, or where equipment is subject to frequent "wash downs".

- Bronze bushing bearing
- Reduces maintenance costs due to simplified design
- Interchangeable with standard types of needle roller bearings.
- Ambient temperature of +30°F to +150°F.

Load Factor Information

RPM	Unit Load PSI
Slow and Intermittent	4,000 Lbs.
150 to 300 RPM	2,000 Lbs.
300 to 600 RPM	600 Lbs.
600 to 900 RPM	400 Lbs.
900 to 1,200 RPM	300 Lbs.

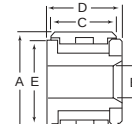
Example:

NCF-40 Cam Follower at 800 RPM =
.391 (load factor) x 400 Lbs = 156.4 Lbs. Capacity

Cat. No.	Size	+.000 -.001		+.000 -.005		+.001 -.000		+.010 -.010		+.030 -.030		Thread	Hex Key Across Flats	Load Factor*	Price Each
		A	B	C	D	E	F	G	H	I	J				
NCF-5	1/2	.500	.375	.190	.625	.250	10-32	3/8	.070			7.78			
NCF-10	5/8	.625	.4375	.250	.750	.312	1/4-28	1/2	.097			7.78			
NCF-15	1 1/16	.6875	.4375	.250	.750	.312	1/4-28	1/2	.097			8.22			
NCF-20	3/4	.750	.500	.375	.875	.375	3/8-24	3/16	.164			6.55			
NCF-25	5/8	.875	.500	.375	.875	.375	3/8-24	3/16	.164			6.67			
NCF-30	1	1.00	.625	.4375	1.000	.500	7/16-20	1/4	.250			8.22			
NCF-35	1 1/8	1.125	.625	.4375	1.000	.500	7/16-20	1/4	.250			8.65			
NCF-40	1 1/4	1.250	.750	.500	1.250	.625	1/2-20	1/2	.391			10.31			
NCF-45	1 3/8	1.375	.750	.500	1.250	.625	1/2-20	1/2	.391			10.85			
NCF-50	1 1/2	1.500	.875	.625	1.500	.750	5/8-18	5/16	.544			12.36			
NCF-55	1 3/4	1.625	.875	.625	1.500	.750	5/8-18	5/16	.544			12.65			
NCF-60	1 7/8	1.750	1.000	.750	1.750	.875	3/4-16	3/8	.700			16.58			
NCF-65	1 7/8	1.875	1.000	.750	1.750	.875	3/4-16	3/8	.700			17.11			
NCF-70	2	2.000	1.125	.875	2.000	1.000	7/8-14	3/8	.984			21.91			

*For load factor information, see table above.

Yoke Type Rollers



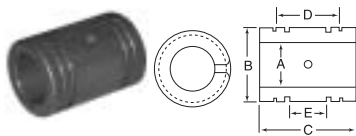
Cat. No.	Size	+.000 -.001		+.0002 -.0004		+.000 -.005		+.005 -.010		Shaft Diameter	Load Factor*	Price Each
		A	B	C	D	E	F	G	H			
NCF-105	3/4	.750	.250	.500	.5625	5/8	.2497	.190				7.33
NCF-110	7/8	.875	.250	.500	.5625	5/8	.2497	.190				7.78
NCF-115	1	1.000	.3125	.625	.6875	1 1/16	.3122	.250				8.73
NCF-120	1 1/8	1.125	.3125	.625	.6875	1 1/16	.3122	.250				8.76
NCF-125	1 1/4	1.250	.375	.750	.8125	7/8	.3747	.390				9.47
NCF-130	1 3/8	1.375	.375	.750	.8125	7/8	.3747	.390				10.00
NCF-135	1 1/2	1.500	.4375	.875	.9375	1	.4372	.510				11.49
NCF-140	1 5/8	1.625	.4375	.875	.9375	1	.4372	.510				12.49
NCF-145	1 3/4	1.750	.500	1.000	1.0625	1 1/16	.4997	.650				15.49
NCF-150	1 7/8	1.875	.500	1.000	1.0625	1 1/16	.4997	.650				15.76
NCF-155	2	2.000	.625	1.125	1.3125	1 3/8	.6247	.928				18.71

*For load factor information, see table above.

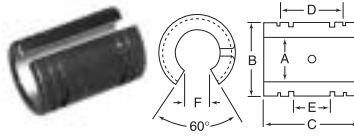
LINEAR BEARINGS

Ceramic Coated

Features a high load capacity. Approved for direct food contact in applications where animal fat or food-approved lubricants are present. Bearing requires lubrication, but offers a middle ground coefficient of friction between ball bushing, composite/self-lubricating bearings and injection molded plastics. Coefficient of friction is .04 to .08. Dampens vibration for quiet and smooth operation — no metal-to-metal contact. Pillow blocks allow 360° misalignment of 1° from shaft centerline and 2° total misalignment of applications where proper alignment is difficult or self-alignment desirable. Bearing is able to withstand rapid oscillation, contamination, shock/vibration, wash downs, submersion and shaft brinelling. Works in less than ideal conditions, such as granite polishing/cutting, glass cutting and abrasive polishing machinery. Minimum shaft hardness is RC35. Temperature range is -200°F to +400°F. The max. static psi is 5,000. The max. PV is 40,000. Other sizes available as special order. Please call for price and delivery.



Closed Style



Open Style

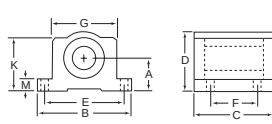
Closed Style Cat. No.	Open Style Cat. No.	A	B	C	D	E	Open Style F	Max. Static Load (Lbs.)	Price Each 1-24	
									Closed Style	Open Style
LMB-100	LMB-200	.2505	.5000	.750	.437	.018	.094	939	7.56	12.60
LMB-105	LMB-205	.3755	.6250	.875	.562	.260	.156	1,643	8.15	13.11
LMB-110	LMB-210	.5005	.8750	1.250	.875	.490	.312	3,128	9.40	14.44
LMB-115	LMB-215	.7508	1.2500	1.625	1.062	.612	.438	6,100	10.93	15.80
LMB-120	LMB-220	1.0008	1.5625	2.250	1.625	1.180	.563	11,259	18.91	24.85
LMB-125	LMB-225	1.2508	2.0000	2.625	1.875	1.425	.625	16,417	37.64	44.53
LMB-130	LMB-230	1.5008	2.3750	3.000	2.250	1.670	.750	22,512	39.47	50.75
LMB-135	LMB-235	2.0012	3.0000	4.000	3.000	1.450	1.000	40,024	61.65	86.18

Note: Do not use WD40 or silicon based spray lubricants.

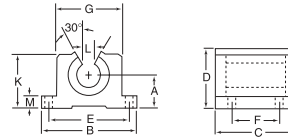
Self-Aligning Pillow Blocks



Closed Style



Open Style

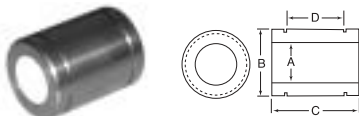


Cat. No.	Shaft Dia.		±.003 A	B	C	D	±.010 E	±.010 F	G	Size		K	Min. L	Min. M	Max. Static Load (Lbs.)	Price Each 1-24
	Nom.	Max.								Bolt	Hole					
Closed Style																
LMB-300	3/4	.2495	.437	1 1/8	1 1/8	1 1/8	1.312	.750	1	#6	5/32	3/4	—	3/16	939	35.13
LMB-305	7/8	.3745	.500	1 3/4	1 1/8	1 1/8	1.437	.875	1 1/8	#6	5/32	7/8	—	3/16	1,643	41.93
LMB-310	1/2	.4995	.687	2	1 1/4	1 1/4	1.688	1.000	1 3/8	#6	5/32	1 1/8	—	1/4	3,128	44.85
LMB-315	3/4	.7495	.937	2 3/4	2 1/8	1 3/4	2.375	1.250	1 7/8	#8	3/16	1 1/8	—	3/16	6,100	52.07
LMB-320	1	.9995	1.187	3 1/4	2 1/8	2 1/8	2.875	1.750	2 3/8	#10	7/32	2	—	3/8	11,259	74.60
LMB-325	1 1/4	1.2495	1.500	4	3 3/8	2 1/8	3.500	2.000	3	#10	7/32	2 1/2	—	7/16	16,417	111.31
LMB-330	1 1/2	1.4994	1.750	4 3/4	4	3 3/4	4.125	2.500	3 1/2	1/4	9/32	2 3/4	—	1/2	22,512	138.60
Open Style																
LMB-400	3/4	.2495	.437	1 1/8	1 1/8	1 1/8	1.312	.750	1	#6	5/32	3/4	3/32	3/16	939	47.73
LMB-405	7/8	.3745	.500	1 3/4	1 1/8	1 1/8	1.437	.875	1 1/8	#6	5/32	7/8	9/64	3/16	1,643	48.73
LMB-410	1	.4995	.687	2	1 1/4	1 1/4	1.688	1.000	1 3/8	#6	5/32	1 1/8	5/16	1/4	3,128	49.56
LMB-415	3/4	.7495	.937	2 3/4	2 1/8	1 3/4	2.375	1.250	1 7/8	#8	3/16	1 1/8	7/16	5/16	6,100	60.47
LMB-420	1	.9995	1.187	3 1/4	2 1/8	2 1/8	2.875	1.750	2 3/8	#10	7/32	2	9/16	3/8	11,259	85.67
LMB-425	1 1/4	1.2495	1.500	4	3 3/8	2 1/8	3.500	2.000	3	#10	7/32	2 1/2	5/8	7/16	16,417	128.53
LMB-430	1 1/2	1.4994	1.750	4 3/4	4	3 3/4	4.125	2.500	3 1/2	1/4	9/32	2 3/4	3/4	1/2	22,512	151.20

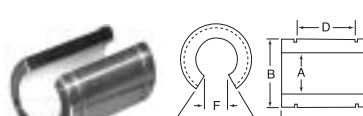
Note: Do not use WD40 or silicon based spray lubricants.

LINEAR BEARINGS

FDA/USDA Compliant



Closed Style



Open Style

Stainless steel shell features FDA/USDA compliant, self-lubricating Teflon composite liner. Bearings are direct drop-in replacements for inch size linear ball bushings. Designed to run on soft 300 series shafting. Minimum shaft hardness is RB25. Ideal for drug/food processing equipment and packaging equipment where direct contact would be a factor. Bearing is unaffected by wash downs, contamination or submersion. Coefficient of friction is .12 to .20. Temperature range is -400°F to +375°F. The max. static psi is 1,000. Max. SFM without any load is 400. PV max. is 10,000. Other sizes available as special order. Please call for price and delivery.

Closed Style Cat. No.	Open Style Cat. No.	A	B	C	D	Open Style F	Max. Static Load (Lbs.)	Price Each 1-24	
								Closed Style	Open Style
LMB-5	LMB-25	.3755	.6250	.875	.562	.156	1,643	17.45	22.69
LMB-10	LMB-30	.5005	.8750	1.250	.875	.312	3,128	18.55	26.82
LMB-15	LMB-35	.7508	1.2500	1.625	1.062	.438	6,100	24.73	32.15
LMB-20	LMB-40	1.0008	1.5625	2.250	1.625	.563	11,259	32.55	42.31

simplicity™ LINEAR BEARINGS

Pacific Bearing's plain bearing technology offers many design advantages over roller ball bearings. Some of these advantages include:

- Self-lubricating which requires no external lubricant
- Embeddability of hard particulate eliminates galling and shaft damage
- Dampens vibration for quiet and smooth operation – no metal to metal contact
- High load capacity allows for more compact design
- Shock loads are absorbed without damage to components
- Maintenance free with a reliable, predictable life that will not catastrophically fail
- High temperature range (-400°F to +500°F) and chemically inert.

The plain bearing liner is made of FrelonGOLD®, a compound Teflon®. The interaction of the FrelonGOLD® material and the shafting creates a natural, microscopic transfer process of the FrelonGOLD® to the running surfaces. The valleys in the surface finish are filled in with FrelonGOLD® during the initial break-in period. This creates the self-lubricating condition of FrelonGOLD® riding on FrelonGOLD®. A minimum of initial lubrication is recommended to aid in cleaning the shafting for a proper transfer process. Chrome plated shafting is not recommended. The compensated styles below offer additional running clearance. The bearing shell is 6061-T6 aluminum with anodized finish. Other finishes, stainless steel and self aligning styles are also available as special order. Please call for price and delivery.



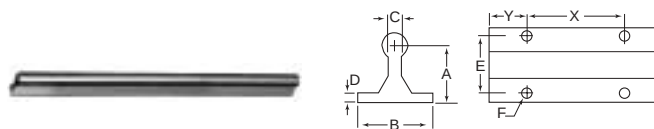
Closed Style

Cat. No.	Pacific	Nominal Dia.	A	B	C	D	E	Effective Surface Area (Sq. In.)	Max. Static Load (Lbs.)	Max. Speed Ft./Min.		Price Each 1-24
										Dry	Lubricated	
Precision Style												
PBC-05	FL03	3/16	.1880/.1890	.3740/.3750	.547/.562	.375	.030	.110	110	140	400	9.97
PBC-06	FL04	1/4	.2500/.2510	.4990/.5000	.735/.750	.437	.041	.200	300	140	400	9.97
PBC-07	FL06	3/8	.3750/.3760	.6240/.6250	.860/.875	.562	.041	.340	510	140	400	10.83
PBC-08	FL08	1/2	.5000/.5010	.8740/.8750	1.235/1.250	.875	.048	.650	975	140	400	11.33
PBC-09	FL10	5/8	.6250/.6260	1.1240/1.1250	1.485/1.500	1.000	.058	.980	1,470	140	400	12.44
PBC-10	FL12	3/4	.7500/.7510	1.2490/1.2500	1.610/1.625	1.062	.058	1.270	1,905	140	400	12.66
PBC-11	FL16	1	1.0000/1.0010	1.5613/1.5625	2.235/2.250	1.625	.070	2.350	3,525	140	400	23.19
PBC-12	FL20	1 1/4	1.2500/1.2510	1.9988/2.0000	2.605/2.625	1.875	.070	3.430	5,145	140	400	39.03
PBC-13	FL24	1 1/2	1.5001/1.5012	2.3738/2.3750	2.980/3.000	2.250	.089	4.700	7,050	140	400	44.44
PBC-14	FL32	2	2.0002/2.0014	2.9986/3.0000	3.980/4.000	3.000	.105	8.350	12,525	140	400	78.18
Compensated Style												
PBC-25	FLC03	3/16	.1890/.1900	.3740/.3750	.547/.562	.375	.030	.110	110	140	400	9.97
PBC-26	FLC04	1/4	.2520/.2530	.4990/.5000	.735/.750	.437	.041	.200	300	140	400	9.97
PBC-27	FLC06	3/8	.3770/.3780	.6240/.6250	.860/.875	.562	.041	.340	510	140	400	10.83
PBC-28	FLC08	1/2	.5020/.5030	.8740/.8750	1.235/1.250	.875	.048	.650	975	140	400	11.33
PBC-29	FLC10	5/8	.6270/.6280	1.1240/1.1250	1.485/1.500	1.000	.058	.980	1,470	140	400	12.44
PBC-30	FLC12	3/4	.7530/.7540	1.2490/1.2500	1.610/1.625	1.062	.058	1.270	1,905	140	400	12.66
PBC-31	FLC16	1	1.0030/1.0040	1.5613/1.5625	2.235/2.250	1.625	.070	2.350	3,525	140	400	23.19
PBC-32	FLC20	1 1/4	1.2540/1.2550	1.9988/2.0000	2.605/2.625	1.875	.070	3.430	5,145	140	400	39.03
PBC-33	FLC24	1 1/2	1.5040/1.5052	2.3738/2.3750	2.980/3.000	2.250	.089	4.700	7,050	140	400	44.44

Open Style

Cat. No.	Pacific	Nominal Dia.	A	B	C	D	E	F	G	Retaining Hole Dia.	Effective Surface Area (Sq. In)	Max. Static Load (Lbs)	Max. Speed Ft./Min.		Price Each 1-24
													Dry	Lubricated	
Precision Style															
PBC-40	FLN08	½	.5000/.5010	.8740/.8750	1.235/1.250	.875	.048	.313	60°	.136	.650	975	140	400	15.54
PBC-41	FLN10	⅝	.6250/.6260	1.1240/1.1250	1.485/1.500	1.000	.058	.375	60°	.136	.980	1,470	140	400	16.51
PBC-42	FLN12	¾	.7500/.7510	1.2490/1.2500	1.610/1.625	1.062	.058	.438	60°	.136	1.270	1,905	140	400	17.21
PBC-43	FLN16	1	1.0000/1.0010	1.5613/1.5625	2.235/2.250	1.625	.070	.563	60°	.136	2.350	3,525	140	400	29.08
PBC-44	FLN20	1¼	1.2500/1.2510	1.9988/2.0000	2.605/2.625	1.875	.070	.625	60°	.201	3.430	5,145	140	400	49.25
Compensated Style															
PBC-50	FLCN08	½	.5020/.5030	.8740/.8750	1.235/1.250	.875	.048	.313	60°	.136	.650	975	140	400	15.54
PBC-52	FLCN12	¾	.7530/.7540	1.2490/1.2500	1.610/1.625	1.062	.058	.438	60°	.136	1.270	1,905	140	400	17.21
PBC-53	FLCN16	1	1.0030/1.0040	1.5613/1.5625	2.235/2.250	1.625	.070	.563	60°	.136	2.350	3,525	140	400	29.08
PBC-54	FLCN20	1¼	1.2540/1.2550	1.9988/2.0000	2.605/2.625	1.875	.070	.625	60°	.201	3.430	5,145	140	400	49.25

Linear Shaft Assemblies Aluminum — Ceramic Coated



Specifically designed to run with the Pacific Bearings shown. Made from 6061-T6 aluminum with a ceramic coating to MIL-8625. The one piece integrated design eliminates assembly time. Weld spatter, paints and other contaminants will not stick to the shaft. Vibration resistant and non-magnetic. 12" and 24" lengths are in stock for same day shipping. Other lengths up to 48" are available as special order. Plain shafts and pre-tapped shafts are also available as special order. Please call for price and delivery. This shafting should not be used in harsh washdown environments or with ball bearings. Class "L" tolerance.

harsh washdown environments or with ball bearings. Class "L" tolerance.														Price Each	
12"	24"	Nom.	Actual	±.002						F		Hole Spacing		1-3	
Cat. No.	Cat. No.	Dia.	Dia.		A	B	C	D	E	Bolt	Hole	X	Y	12"	24"
PBL-305	PBL-310	1/2	.4990/.4995	1.125	1.500	.250	.188	1.00		#6	.169	4	2	37.97	75.96
PBL-315	PBL-320	3/4	.7490/.7495	1.500	1.750	.375	.250	1.25		#10	.221	6	3	44.70	89.40
PBL-325	PBL-330	1	.9990/.9995	1.750	2.125	.500	.250	1.50		1/4	.281	6	3	51.24	102.49
PBL-335	PBL-340	1 1/2	1.4989/1.4994	2.500	3.000	.688	.375	2.25		5/16	.343	8	4	72.50	145.01
PBL-345	PBL-350	2	1.9987/1.9994	3.250	3.750	.875	.500	2.75		3/8	.406	8	4	98.49	196.94

REID TOOL SUPPLY COMPANY

355

simplicity™ SIMPLICITY LINEAR BEARINGS Metric

Similar to the linear bearings shown on page 355 except in standard European metric. Dimensions are in millimeters.



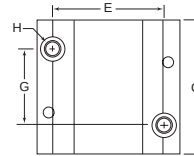
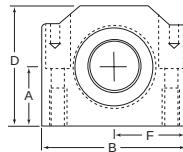
Closed Style

Cat. No.	Pacific	Nominal Dia.	A	B	C	D	E	Effective Area (Sq. Cm.)	Max. Static Load (Kg.)	Max. Speed (M/Min.)		Price Each
										Dry	Lubricated	
PBC-905	FM05	5	5.010/5.028	11.982/12.000	21.746/22.000	12	1.14	1.1	116	42.6	122	13.95
PBC-906	FM08	8	8.013/8.035	15.982/16.000	24.746/25.000	14.0	1.14	2.0	210	42.6	122	14.55
PBC-907	FM10	10	10.013/10.035	18.974/19.000	28.746/29.000	19.4	1.32	2.9	305	42.6	122	15.71
PBC-908	FM12	12	12.016/12.043	21.979/22.000	31.746/32.000	20.0	1.32	3.8	403	42.6	122	16.53
PBC-909	FM16	16	16.016/16.043	25.979/26.000	35.746/36.000	22.0	1.32	5.8	605	42.6	122	18.84
PBC-910	FM20	20	20.020/20.053	31.975/32.000	44.746/45.000	28.0	1.63	9.0	945	42.6	122	19.25
PBC-911	FM25	25	25.020/25.053	39.975/40.000	57.746/58.000	40.0	1.90	14.5	1,523	42.6	122	33.93
PBC-912	FM30	30	30.020/30.053	46.975/47.000	67.746/68.000	48.0	1.90	20.4	2,142	42.6	122	57.05
PBC-913	FM40	40	40.025/40.064	61.970/62.000	79.746/80.000	56.0	2.20	32.0	3,360	42.6	122	65.13
PBC-914	FM50	50	50.025/50.064	74.970/75.000	99.746/100.000	72.0	2.70	50.0	5,250	42.6	122	114.20

Open Style

Cat. No.	Pacific	Nominal Dia.	A	B	C	D	E	F	G	Effective Area (Sq. Cm.)	Max. Static Load (Kg.)	Max Speed (M/Min.)		Price Each
												Dry	Lubricated	
PBC-920	FMN12	12	12.016/12.043	21.979/22.000	31.746/32.000	20	1.32	7.6	78°	3.8	403	42.6	122	22.91
PBC-921	FMN16	16	16.016/16.043	25.979/26.000	35.746/36.000	22	1.32	10.4	78°	5.8	605	42.6	122	25.29
PBC-922	FMN20	20	20.020/20.053	31.975/32.000	44.746/45.000	28	1.63	10.8	60°	9.0	945	42.6	122	32.07
PBC-923	FMN25	25	25.020/25.053	39.975/40.000	57.746/58.000	40	1.90	13.2	60°	14.5	1,523	42.6	122	42.45
PBC-924	FMN30	30	30.020/30.053	49.975/47.000	67.746/68.000	48	1.90	14.2	72°	20.4	2,142	42.6	122	71.33
PBC-925	FMN40	40	40.025/40.064	61.970/62.000	79.746/80.000	56	2.20	19.5	72°	32.0	3,360	42.6	122	75.60
PBC-926	FMN50	50	50.025/50.064	74.970/75.000	99.746/100.000	72	2.70	24.0	72°	50.0	5,250	42.6	122	150.75

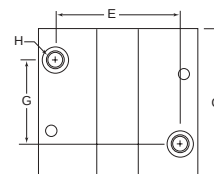
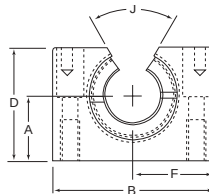
Simplicity™ Pillow Blocks Closed Style



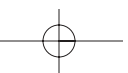
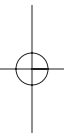
These pillow blocks use the bearings found above. Dimensions are in millimeters.

Cat. No.	Pacific	Nominal ID	A +/- .015	B	C	D	E +/- .15	F +/- .013	G +/- .15	H	Max Load(kg)	Price Each 1-24
PBC-940	PM08	8	15	35	32	28.0	25	17.5	20	M4	305	53.43
PBC-941	PM10	10	16	40	36	31.5	29	20.0	20	M5	403	48.93
PBC-942	PM12	12	18	43	39	35.0	32	21.5	23	M5	605	50.81
PBC-943	PM16	16	22	53	43	42.0	40	26.5	26	M6	945	58.52
PBC-944	PM20	20	25	60	54	50.0	45	30.0	32	M8	1,523	66.81
PBC-945	PM25	25	30	78	67	60.0	60	39.0	40	M10	2,142	85.55
PBC-946	PM30	30	35	87	79	71.0	68	43.5	45	M10	3,360	113.14
PBC-947	PM40	40	45	108	91	91.0	86	54.0	58	M12		164.03

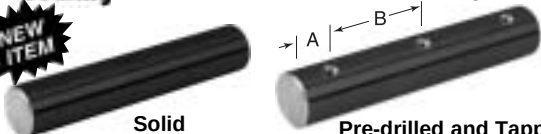
Simplicity™ Pillow Blocks Open Style



Cat. No.	Pacific	Nominal ID	A +/- .015	B	C	D	E	F +/- .013	G +/- .15	H	J	Max Load (kg)	Price Each 1-24
PBC-960	PMN12	12	18	43	39	28	32	21.5	23	M5	66°	403	69.79
PBC-961	PMN16	16	22	53	43	35	40	26.5	26	M6	68°	605	69.48
PBC-962	PMN20	20	25	60	54	42	45	30.0	32	M8	60°	945	85.76
PBC-963	PMN25	25	30	78	67	51	60	39.0	40	M10	60°	1,523	101.93
PBC-964	PMN30	30	35	87	79	60	68	43.5	45	M10	60°	2,142	131.02
PBC-965	PMN40	40	45	108	91	77	86	54.0	58	M12	60°	3,360	131.02



pacifi bearing **FEATHER SHAFTING** Ceramic-Coated Aluminum Shafting

**Solid****Pre-drilled and Tapped**

Economical weight saving alternative to traditional steel shafting. Made from 601-T6 aluminum with a ceramic-coated finish that has a Rockwell hardness of 70C. Surface is non-magnetic and vibration resistant. Weld splatter, paints and contaminants will not stick. Shafting is designed to be used with the **Simplicity™ FrelonGold® lined linear bearings** on page 355. **Note:** Do not use with ball bearings. Pre-drilled and tapped shafting is interchangeable with standard pre-drilled shafting. Ends of shafting are not coated. Fully coated shafting, along with other lengths, is available as special order. Please call for price and delivery.

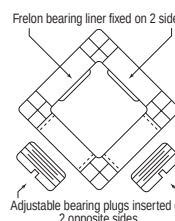
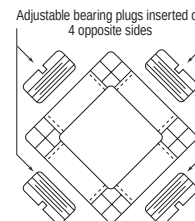
Solid

Cat. No.	Nominal OD	Length	Diameter Tolerance	Weight Per Inch	Price Each 1-24	Cat. No.	Nominal OD	Length	Diameter Tolerance	Weight Per Inch	Price Each 1-24
PBC-1030	3/16	6	.1863/.1871	.003	2.16	PBC-1060	3/4	6	.7488/.7496	.043	3.58
PBC-1031	3/16	9	.1863/.1871	.003	3.24	PBC-1061	3/4	9	.7488/.7496	.043	5.36
PBC-1032	3/16	12	.1863/.1871	.003	4.32	PBC-1062	3/4	12	.7488/.7496	.043	7.16
PBC-1033	3/16	15	.1863/.1871	.003	5.40	PBC-1063	3/4	15	.7488/.7496	.043	8.94
PBC-1034	3/16	18	.1863/.1871	.003	6.48	PBC-1064	3/4	18	.7488/.7496	.043	10.72
PBC-1035	3/16	24	.1863/.1871	.003	8.64	PBC-1065	3/4	24	.7488/.7496	.043	14.30
PBC-1036	1/4	6	.2488/.2496	.005	2.16	PBC-1066	1	6	.9988/.9996	.077	5.42
PBC-1037	1/4	9	.2488/.2496	.005	3.24	PBC-1067	1	9	.9988/.9996	.077	8.14
PBC-1038	1/4	12	.2488/.2496	.005	4.32	PBC-1068	1	12	.9988/.9996	.077	10.86
PBC-1039	1/4	15	.2488/.2496	.005	5.40	PBC-1069	1	15	.9988/.9996	.077	13.56
PBC-1040	1/4	18	.2488/.2496	.005	6.50	PBC-1070	1	18	.9988/.9996	.077	16.28
PBC-1041	1/4	24	.2488/.2496	.005	8.64	PBC-1071	1	24	.9988/.9996	.077	21.70
PBC-1042	3/8	6	.3738/.3746	.010	2.28	PBC-1072	1 1/4	6	1.2488/1.2496	.120	6.96
PBC-1043	3/8	9	.3738/.3746	.010	3.42	PBC-1073	1 1/4	9	1.2488/1.2496	.120	10.44
PBC-1044	3/8	12	.3738/.3746	.010	4.56	PBC-1074	1 1/4	12	1.2488/1.2496	.120	13.92
PBC-1045	3/8	15	.3738/.3746	.010	5.70	PBC-1075	1 1/4	15	1.2488/1.2496	.120	17.40
PBC-1046	3/8	18	.3738/.3746	.010	6.84	PBC-1076	1 1/4	18	1.2488/1.2496	.120	20.88
PBC-1047	3/8	24	.3738/.3746	.010	9.12	PBC-1077	1 1/4	24	1.2488/1.2496	.120	27.84
PBC-1048	1/2	6	.4988/.4996	.019	2.84	PBC-1078	1 1/2	6	1.4987/1.4995	.173	9.38
PBC-1049	1/2	9	.4988/.4996	.019	4.26	PBC-1079	1 1/2	9	1.4987/1.4995	.173	14.06
PBC-1050	1/2	12	.4988/.4996	.019	5.68	PBC-1080	1 1/2	12	1.4987/1.4995	.173	18.74
PBC-1051	1/2	15	.4988/.4996	.019	7.08	PBC-1081	1 1/2	15	1.4987/1.4995	.173	23.42
PBC-1052	1/2	18	.4988/.4996	.019	8.50	PBC-1082	1 1/2	18	1.4987/1.4995	.173	28.12
PBC-1053	1/2	24	.4988/.4996	.019	11.34	PBC-1083	1 1/2	24	1.4987/1.4995	.173	37.48
PBC-1054	3/4	6	.6238/.6246	.030	3.24	PBC-1084	2	6	1.9985/1.9995	.308	20.34
PBC-1055	3/4	9	.6238/.6246	.030	4.86	PBC-1085	2	9	1.9985/1.9995	.308	30.52
PBC-1056	3/4	12	.6238/.6246	.030	6.48	PBC-1086	2	12	1.9985/1.9995	.308	40.68
PBC-1057	3/4	15	.6238/.6246	.030	8.10	PBC-1087	2	15	1.9985/1.9995	.308	50.86
PBC-1058	3/4	18	.6238/.6246	.030	9.72	PBC-1088	2	18	1.9985/1.9995	.308	61.04
PBC-1059	3/4	24	.6238/.6246	.030	12.96	PBC-1089	2	24	1.9985/1.9995	.308	81.38

Pre-drilled and Tapped

Cat. No.	Nominal OD	Length	Diameter Tolerance	Hole Spacing A	B	Thread	Weight Per Inch	Price Each 1-24
PBC-1090	1/2	6	.4988/.4996	2	4	6-32	.019	15.16
PBC-1091	1/2	9	.4988/.4996	2	4	6-32	.019	22.74
PBC-1092	1/2	12	.4988/.4996	2	4	6-32	.019	30.32
PBC-1093	1/2	15	.4988/.4996	2	4	6-32	.019	37.90
PBC-1094	1/2	18	.4988/.4996	2	4	6-32	.019	45.49
PBC-1095	1/2	24	.4988/.4996	2	4	6-32	.019	60.65
PBC-1096	3/8	6	.6238/.6246	2	4	8-32	.030	15.49
PBC-1097	3/8	9	.6238/.6246	2	4	8-32	.030	22.24
PBC-1098	3/8	12	.6238/.6246	2	4	8-32	.030	30.98
PBC-1099	3/8	15	.6238/.6246	2	4	8-32	.030	38.73
PBC-1100	3/8	18	.6238/.6246	2	4	8-32	.030	46.47
PBC-1101	3/8	24	.6238/.6246	2	4	8-32	.030	61.96
PBC-1102	3/4	6	.7488/.7496	3	6	10-32	.043	15.60
PBC-1103	3/4	9	.7488/.7496	3	6	10-32	.043	23.40
PBC-1104	3/4	12	.7488/.7496	3	6	10-32	.043	31.20
PBC-1105	3/4	15	.7488/.7496	3	6	10-32	.043	39.00
PBC-1106	3/4	18	.7488/.7496	3	6	10-32	.043	46.80
PBC-1107	3/4	24	.7488/.7496	3	6	10-32	.043	62.40
PBC-1108	1	6	.9988/.9996	3	6	1/4-20	.077	17.89
PBC-1109	1	9	.9988/.9996	3	6	1/4-20	.077	26.84
PBC-1110	1	12	.9988/.9996	3	6	1/4-20	.077	35.78
PBC-1111	1	15	.9988/.9996	3	6	1/4-20	.077	44.73
PBC-1112	1	18	.9988/.9996	3	6	1/4-20	.077	53.67
PBC-1113	1	24	.9988/.9996	3	6	1/4-20	.077	71.56
PBC-1114	1 1/4	6	1.2488/1.2496	3	6	5/16-18	.120	20.29
PBC-1115	1 1/4	9	1.2488/1.2496	3	6	5/16-18	.120	30.44
PBC-1116	1 1/4	12	1.2488/1.2496	3	6	5/16-18	.120	40.58
PBC-1117	1 1/4	15	1.2488/1.2496	3	6	5/16-18	.120	50.73
PBC-1118	1 1/4	18	1.2488/1.2496	3	6	5/16-18	.120	60.87
PBC-1119	1 1/4	24	1.2488/1.2496	3	6	5/16-18	.120	81.16
PBC-1120	1 1/2	6	1.4987/1.4995	4	8	3/8-16	.173	22.47
PBC-1121	1 1/2	9	1.4987/1.4995	4	8	3/8-16	.173	33.71
PBC-1122	1 1/2	12	1.4987/1.4995	4	8	3/8-16	.173	44.95
PBC-1123	1 1/2	15	1.4987/1.4995	4	8	3/8-16	.173	56.18
PBC-1124	1 1/2	18	1.4987/1.4995	4	8	3/8-16	.173	67.42
PBC-1125	1 1/2	24	1.4987/1.4995	4	8	3/8-16	.173	89.89
PBC-1126	2	6	1.9985/1.9995	4	8	1/2-13	.308	32.95
PBC-1127	2	9	1.9985/1.9995	4	8	1/2-13	.308	49.42
PBC-1128	2	12	1.9985/1.9995	4	8	1/2-13	.308	65.89
PBC-1129	2	15	1.9985/1.9995	4	8	1/2-13	.308	82.36
PBC-1130	2	18	1.9985/1.9995	4	8	1/2-13	.308	98.84
PBC-1131	2	24	1.9985/1.9995	4	8	1/2-13	.308	131.78

pacifi bearing **SQUARE LINEAR BEARING AND SHAFTS**

**Two Sided Adjustable****Four Sided Adjustable**

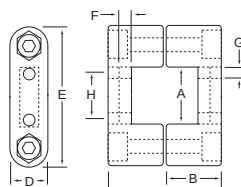
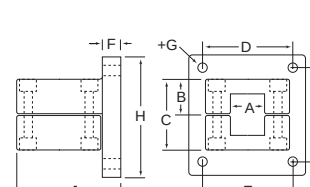
These square bearings maintain radial integrity and can eliminate the need for parallel shafting. The bearings are made from 6061-T6 aluminum with anodized finish. Equipped with bearing plugs that run on a single square shaft, eliminating costly components. The threaded adjustable bearing plugs are made from 316 stainless steel with self-lubricating FrelonJ™ wear pads and are designed to run on the stainless shafting shown below.

Two Sided Adjustable Cat. No.	Four Sided Adjustable Cat. No.	ID Sq.	OD Sq.	Length	Load Capacity Lbs.	Price Each
PBC-405	PBC-410	1	1 3/4	2 1/4	920	Two Side 65.62 Four Side 65.62
PBC-415	PBC-420	1	1 3/4	4	920	Two Side 72.20 Four Side 72.20
PBC-425	PBC-430	1 1/2	2 5/16	3 1/2	1,840	Two Side 123.40 Four Side 123.40
PBC-435	PBC-440	1 1/2	2 5/16	6	1,840	Two Side 135.72 Four Side 135.72
PBC-450					Replacement Frelon Bearing Plug	10.92

Square Shafting

Made from 304 stainless for high corrosion resistance. Buffed and polished to provide an excellent running surface for the above bearings. The sizes listed below are in stock for same day shipping, however, we can provide you with any length up to 10 feet as special order. Please call for price and delivery.

1" OD Cat. No.	1 1/2" OD Cat. No.	Length (Feet)	Price Each
PBC-460	PBC-475	2	1" OD 43.05 1 1/2" OD 69.28
PBC-465	PBC-480	3	64.58 103.91
PBC-470	PBC-485	4	86.11 138.55

Square Clamps and Flange Bases**Square Clamps****Flange Bases**

Made from cast 356-T6 aluminum for good strength and corrosion resistance.

Cat. No.	A	B	C	D	E	F	G	H	J	Price Each
Square Clamps										
PBC-490	1.00	.984	1.968	.630	2.362	.197	.200	.787	—	30.84
PBC-495	1.50	1.338	2.677	.787	2.953	.276	.256	1.024	—	27.02
Flange Bases										
PBC-500	1.00	.984	1.890	2.362	2.520	.472	.256	3.228	2.874	46.27
PBC-505	1.50	1.338	2.440	2.756	2.992	.551	.256	3.740	3.347	64.27

DESIGN GUIDE – CD-ROM

This comprehensive, easy-to-use CD-Rom will let you tour the full range of product, technical and application information available from Pacific Bearing. Included on the CD you will find: The Simplicity Bearings catalog, application stories, technical information guides and product CAD files (DWG and DXF formats). Compatible with windows, DOS, Macintosh and Unix systems.

Cat. No.	Description	Price Each
PBC-CD	Pacific Bearing Design CD	N/C



60 CASE® LINEARRACE® SHAFTS

Steel, Stainless Steel and Chrome Plated Steel



Thomson's 60 Case® LinearRace® shafts are precision ground to exacting standards for superior linear bearing performance and life. Case hardened to 60-65C. Stainless steel, for corrosion resistance, is 440C with a hardness of 50-55C. Chrome plated steel for corrosion resistance. The ends are not plated. Roundness is 80 millionths of an inch. Surface finish 12 Ra microinch. The items below are in stock for same day shipping. Other sizes and styles including metric and tubular are available as special orders. Please call for price and delivery.

Steel

Cat. No.	Thomson	Nom. Dia.	Actual Dia.	Length	Price Each	Cat. No.	Thompson	Nom. Dia.	Actual Dia.	Length	Price Each
TLM-1505	¼ L x 6	¼	.2495/.2490	6	3.00	TLM-1546	¾ L x 48	¾	.6245/.6240	48	25.44
TLM-1506	¼ L x 9	¼	.2495/.2490	9	3.06	TLM-1547	¾ L x 60	¾	.6245/.6240	60	31.80
TLM-1507	¼ L x 12	¼	.2495/.2490	12	4.08	TLM-1548	¾ L x 72	¾	.6245/.6240	72	38.16
TLM-1508	¼ L x 15	¼	.2495/.2490	15	5.10	TLM-1549	¾ L x 6	¾	.7495/.7490	6	4.08
TLM-1509	¼ L x 18	¼	.2495/.2490	18	6.12	TLM-1550	¾ L x 9	¾	.7495/.7490	9	6.12
TLM-1510	¼ L x 24	¼	.2495/.2490	24	8.16	TLM-1551	¾ L x 12	¾	.7495/.7490	12	8.16
TLM-1511	¼ L x 30	¼	.2495/.2490	30	10.20	TLM-1552	¾ L x 15	¾	.7495/.7490	15	10.20
TLM-1512	¼ L x 36	¼	.2495/.2490	36	12.24	TLM-1553	¾ L x 18	¾	.7495/.7490	18	12.24
TLM-1513	¼ L x 42	¼	.2495/.2490	42	14.28	TLM-1554	¾ L x 24	¾	.7495/.7490	24	16.32
TLM-1514	¼ L x 48	¼	.2495/.2490	48	16.32	TLM-1555	¾ L x 30	¾	.7495/.7490	30	20.40
TLM-1515	¾ L x 6	¾	.3745/.3740	6	3.00	TLM-1556	¾ L x 36	¾	.7495/.7490	36	24.48
TLM-1516	¾ L x 9	¾	.3745/.3740	9	3.60	TLM-1557	¾ L x 42	¾	.7495/.7490	42	28.56
TLM-1517	¾ L x 12	¾	.3745/.3740	12	4.80	TLM-1558	¾ L x 48	¾	.7495/.7490	48	32.64
TLM-1518	¾ L x 15	¾	.3745/.3740	15	6.00	TLM-1559	¾ L x 60	¾	.7495/.7490	60	40.80
TLM-1519	¾ L x 18	¾	.3745/.3740	18	7.20	TLM-1561	1 L x 12	1	.9995/.9990	12	10.80
TLM-1520	¾ L x 24	¾	.3745/.3740	24	9.60	TLM-1562	1 L x 18	1	.9995/.9990	18	16.20
TLM-1522	¾ L x 36	¾	.3745/.3740	36	14.40	TLM-1563	1 L x 24	1	.9995/.9990	24	21.60
TLM-1523	¾ L x 42	¾	.3745/.3740	42	16.80	TLM-1564	1 L x 30	1	.9995/.9990	30	27.00
TLM-1524	¾ L x 48	¾	.3745/.3740	48	19.20	TLM-1565	1 L x 36	1	.9995/.9990	36	32.40
TLM-1525	½ L x 6	½	.4995/.4990	6	3.00	TLM-1566	1 L x 42	1	.9995/.9990	42	37.80
TLM-1526	½ L x 9	½	.4995/.4990	9	3.78	TLM-1567	1 L x 48	1	.9995/.9990	48	43.20
TLM-1527	½ L x 12	½	.4995/.4990	12	5.04	TLM-1568	1 L x 60	1	.9995/.9990	60	54.00
TLM-1528	½ L x 15	½	.4995/.4990	15	6.30	TLM-1570	1¼ L x 12	1¼	1.2495/1.2490	12	14.04
TLM-1529	½ L x 18	½	.4995/.4990	18	7.56	TLM-1571	1¼ L x 18	1¼	1.2495/1.2490	18	21.06
TLM-1530	½ L x 24	½	.4995/.4990	24	10.08	TLM-1572	1¼ L x 24	1¼	1.2495/1.2490	24	28.08
TLM-1531	½ L x 30	½	.4995/.4990	30	12.60	TLM-1573	1¼ L x 30	1¼	1.2495/1.2490	30	35.10
TLM-1532	½ L x 36	½	.4995/.4990	36	15.12	TLM-1574	1¼ L x 36	1¼	1.2495/1.2490	36	42.12
TLM-1533	½ L x 42	½	.4995/.4990	42	17.64	TLM-1575	1¼ L x 42	1¼	1.2495/1.2490	42	49.14
TLM-1534	½ L x 48	½	.4995/.4990	48	20.16	TLM-1576	1¼ L x 48	1¼	1.2495/1.2490	48	56.16
TLM-1535	½ L x 60	½	.4995/.4990	60	25.20	TLM-1577	1¼ L x 60	1¼	1.2495/1.2490	60	70.20
TLM-1536	½ L x 72	½	.4995/.4990	72	30.24	TLM-1578	1¼ L x 72	1¼	1.2495/1.2490	72	84.24
TLM-1537	¾ L x 6	¾	.6245/.6240	6	3.18	TLM-1579	1½ L x 12	1½	1.4994/1.4989	12	17.88
TLM-1538	¾ L x 9	¾	.6245/.6240	9	4.77	TLM-1580	1½ L x 18	1½	1.4994/1.4989	18	26.82
TLM-1539	¾ L x 12	¾	.6245/.6240	12	6.36	TLM-1581	1½ L x 24	1½	1.4994/1.4989	24	35.76
TLM-1540	¾ L x 15	¾	.6245/.6240	15	7.95	TLM-1582	1½ L x 30	1½	1.4994/1.4989	30	44.70
TLM-1541	¾ L x 18	¾	.6245/.6240	18	9.54	TLM-1583	1½ L x 36	1½	1.4994/1.4989	36	53.64
TLM-1542	¾ L x 24	¾	.6245/.6240	24	12.72	TLM-1584	1½ L x 42	1½	1.4994/1.4989	42	62.58
TLM-1543	¾ L x 30	¾	.6245/.6240	30	15.90	TLM-1585	1½ L x 48	1½	1.4994/1.4989	48	71.52
TLM-1544	¾ L x 36	¾	.6245/.6240	36	19.08	TLM-1586	1½ L x 60	1½	1.4994/1.4989	60	89.40
TLM-1545	¾ L x 42	¾	.6245/.6240	42	22.26	TLM-1587	1½ L x 72	1½	1.4994/1.4989	72	107.28

Stainless Steel

Cat. No.	Thompson	Nom. Dia.	Actual Dia.	Length	Price Each	Cat. No.	Thompson	Nom. Dia.	Actual Dia.	Length	Price Each
TLM-1601	¼ LSS x 6	¼	.2495/.2490	6	7.08	TLM-1620	¾ LSS x 12	¾	.6245/.6240	12	18.96
TLM-1602	¼ LSS x 12	¼	.2495/.2490	12	14.16	TLM-1621	¾ LSS x 18	¾	.6245/.6240	18	28.44
TLM-1603	¼ LSS x 18	¼	.2495/.2490	18	21.24	TLM-1622	¾ LSS x 24	¾	.6245/.6240	24	37.92
TLM-1604	¼ LSS x 24	¼	.2495/.2490	24	28.32	TLM-1623	¾ LSS x 36	¾	.6245/.6240	36	56.88
TLM-1605	¼ LSS x 36	¼	.2495/.2490	36	42.48	TLM-1624	¾ LSS x 48	¾	.6245/.6240	48	75.84
TLM-1606	¼ LSS x 48	¼	.2495/.2490	48	56.64	TLM-1625	¾ LSS x 6	¾	.7495/.7490	6	10.44
TLM-1607	¾ LSS x 6	¾	.3745/.3740	6	7.14	TLM-1626	¾ LSS x 12	¾	.7495/.7490	12	20.88
TLM-1608	¾ LSS x 12	¾	.3745/.3740	12	14.28	TLM-1627	¾ LSS x 18	¾	.7495/.7490	18	31.32
TLM-1609	¾ LSS x 18	¾	.3745/.3740	18	21.42	TLM-1628	¾ LSS x 24	¾	.7495/.7490	24	41.76
TLM-1611	¾ LSS x 36	¾	.3745/.3740	36	42.84	TLM-1629	¾ LSS x 36	¾	.7495/.7490	36	62.64
TLM-1613	½ LSS x 6	½	.4995/.4990	6	7.26	TLM-1630	¾ LSS x 48	¾	.7495/.7490	48	83.52
TLM-1614	½ LSS x 12	½	.4995/.4990	12	14.52	TLM-1631	1 LSS x 12	1	.9995/.9990	12	29.52
TLM-1615	½ LSS x 18	½	.4995/.4990	18	21.78	TLM-1632	1 LSS x 18	1	.9995/.9990	18	44.28
TLM-1616	½ LSS x 24	½	.4995/.4990	24	29.04	TLM-1633	1 LSS x 24	1	.9995/.9990	24	59.04
TLM-1617	½ LSS x 36	½	.4995/.4990	36	43.56	TLM-1634	1 LSS x 36	1	.9995/.9990	36	88.56
TLM-1618	½ LSS x 48	½	.4995/.4990	48	58.08	TLM-1635	1 LSS x 48	1	.9995/.9990	48	118.08

Chrome Plated Steel

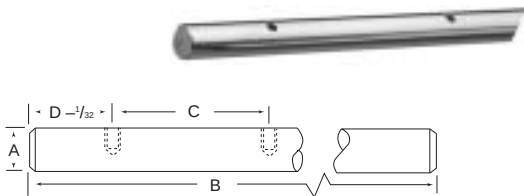
Cat. No.	Thompson	Nom. Dia.	Actual Dia.	Length	Price Each	Cat. No.	Thompson	Nom. Dia.	Actual Dia.	Length	Price Each
TLM-1701	½ LCP x 6	½	.4995/.4990	6	7.20	TLM-1707	¾ LCP x 12	¾	.7495/.7490	12	21.84
TLM-1702	½ LCP x 12	½	.4995/.4990	12	14.40	TLM-1708	¾ LCP x 18	¾	.7495/.7490	18	32.76
TLM-1703	½ LCP x 18	½	.4995/.4990	18	21.60	TLM-1709	¾ LCP x 24	¾	.7495/.7490	24	43.68
TLM-1704	½ LCP x 24	½	.4995/.4990	24	28.80	TLM-1712	1 LCP x 12	1	.9995/.9990	12	27.36
TLM-1705	½ LCP x 36	½	.4995/.4990	36	43.20	TLM-1713	1 LCP x 18	1	.9995/.9990	18	41.04
TLM-1706	¾ LCP x 6	¾	.7495/.7490	6	10.92	TLM-1714	1 LCP x 24	1	.9995/.9990	24	54.72

THOMSON™ 60 CASE® LINEARRACE® SHAFTS

Pre-Drilled and Tapped Shafts, Rails and Assemblies

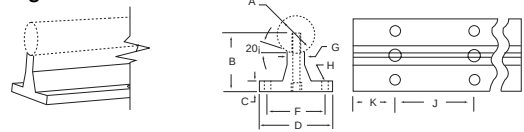
Pre-drilled shafting mounts easily to pre-drilled support rails. For use with open style bearings and pillow blocks. All holes are drilled and tapped to the center of the shaft. Rails provide support over the entire length of the shaft. **Shafts are described on page 359.** All supporting rails are made from aluminum alloy and are 24" lengths. They can be cut or mounted end to end to fit as needed. The assemblies include the shaft already mounted on the rail for easy installation. Additional inch and metric sizes available as special order. Please call for price and delivery.

Pre-Drilled 60 Case® LinearRace® Shafting Steel and Stainless Steel



Steel Cat. No.	Stainless Cat. No.	A	B	C	D	Thread	Price Each	
							Steel	Stainless
TLM-1801	TLM-1831	1/2	24	4	2	6-32	47.76	69.60
TLM-1802	—	1/2	48	4	2	6-32	95.52	—
TLM-1803	—	1/2	72	4	2	6-32	143.28	—
TLM-1804	TLM-1834	5/8	24	4	2	8-32	49.44	74.16
TLM-1805	—	5/8	48	4	2	8-32	98.88	—
TLM-1806	TLM-1836	5/8	72	4	2	8-32	148.32	222.48
TLM-1807	TLM-1837	3/4	24	6	3	10-32	50.88	74.64
TLM-1808	TLM-1838	3/4	48	6	3	10-32	101.76	149.28
TLM-1809	TLM-1839	3/4	72	6	3	10-32	152.64	223.82
TLM-1810	TLM-1840	1	24	6	3	1/4-20	56.64	90.96
TLM-1811	TLM-1841	1	48	6	3	1/4-20	113.28	181.92
TLM-1812	TLM-1842	1	72	6	3	1/4-20	169.92	272.88
TLM-1814	—	1 1/4	72	6	3	5/16-18	200.16	—
TLM-1816	—	1 1/2	48	8	4	3/8-16	150.72	—
TLM-1817	—	1 1/2	72	8	4	3/8-16	226.08	—

Pre-Drill Shaft Support Rails 24" Lengths



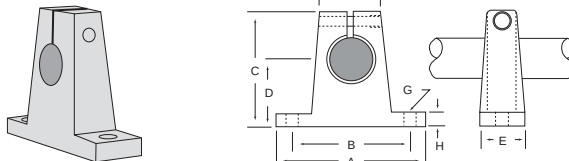
Cat. No.	A	B	C	D	F	G	Hole	Bolt	Linear Race Mounting Bolt	J	K	Price Each 1-9
TLM-1901	1/2	1.125	.19	1.50	1.00	.25	.17	#6	6-32x.88	4	2	53.01
TLM-1902	5/8	1.125	.25	1.63	1.13	.31	.19	#8	8-32x.88	4	2	62.20
TLM-1903	3/4	1.500	.25	1.75	1.25	.38	.22	#10	10-32x1.25	6	3	69.87
TLM-1904	1	1.750	.25	2.13	1.50	.50	.28	1/4	1/4-20x1.50	6	3	81.55
TLM-1905	1 1/4	2.125	.31	2.50	1.88	.56	.34	5/16	5/16-18x1.75	6	3	99.43
TLM-1906	1 1/2	2.500	.38	3.00	2.25	.69	.34	3/8	3/8-16x2.00	8	4	111.86

Steel Shaft Rail Assemblies



24 Inch Length				48 Inch Length			
Shaft Dia.	Cat. No.	Price Each 1-3		Shaft Dia.	Cat. No.	Price Each 1-3	
1/2	TLM-1950	104.64		1/2	TLM-1956	209.28	
5/8	TLM-1951	115.92		5/8	TLM-1957	231.84	
3/4	TLM-1952	128.64		3/4	TLM-1958	257.28	
1	TLM-1953	153.36		1	TLM-1959	306.72	
1 1/2	TLM-1955	207.60					

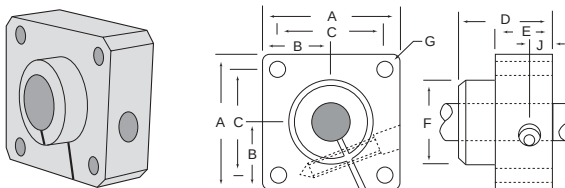
Shaft Support Blocks



For end supported applications. Easily secured with two mounting bolts. Made from malleable iron alloy with corrosion resistant coating. Block can be reamed to accommodate larger shafts.

Cat. No.	Thomson	Dia.	+/- .010			+/- .002		E	F	G		H	Price Each
			A	B	C	D				Hole	Bolt		
TLM-2003	SB-8	1/2	2	1.500	1.63	1.000	.63	.75	.19	#8	.25	21.21	
TLM-2004	SB-10	5/8	2 1/2	1.875	1.75	1.000	.69	.88	.22	#10	.31	22.41	
TLM-2005	SB-12	3/4	3 1/4	2.000	2.13	1.250	.75	1.00	.22	#10	.31	23.43	
TLM-2006	SB-16	1	3 3/4	2.500	2.56	1.500	1.00	1.38	.28	.25	.38	28.62	
TLM-2007	SB-20	1 1/4	4	3.000	3.00	1.750	1.13	1.75	.34	.31	.44	34.71	
TLM-2008	SB-24	1 1/2	4 3/4	3.500	3.50	2.000	1.25	2.00	.34	.31	.50	39.43	

Flanged Support Blocks



Flanged mounting surface for easy assembly. Secured with four mounting bolts. Made of high strength aluminum alloy. Block can be reamed to accommodate larger shafts.

Cat. No.	Thomson	Dia.	+/- .010						G		J	Price
			A	B	C	D	E	F	Hole	Bolt		Each
TLM-2020	FSB-8	1/2	1.63	.81	1.250	.88	.50	1.00	.18	#8	.25	36.54
TLM-2021	FSB-12	3/4	2.38	1.19	1.750	1.00	.63	1.25	.21	#10	.31	40.16
TLM-2022	FSB-16	1	2.75	1.38	2.125	1.25	.63	1.50	.27	1/4	.31	44.53
TLM-2023	FSB-20	1 1/4	3.13	1.56	2.375	1.38	.75	1.75	.27	1/4	.38	50.66

LinearLube™

BEARING GREASE

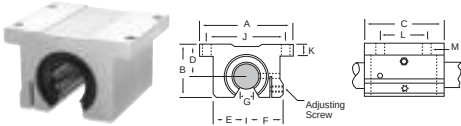


Linear Lube is designed for use in bearing applications. It is 100% synthetic grease with concentrated Teflon particles. It will not volatilize or oxidize at high operating temperatures or form corrosive deposits. Contains no petroleum products. It is non-toxic (FDA listed and USDA rated H1, suitable for incidental contact with food or potable water) and non-polluting. No adverse effects on plastics. Operates effectively from -65°F to +450°F. 14 - 1/2 oz. tube.

Cat. No.	Description	Price Each 1-11
LL-1	Linear Lube Bearing Grease	19.72



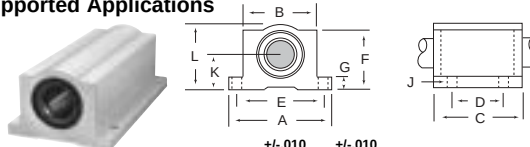
Super Ball Bushing® Pillow Blocks Open Type For Continuously Supported Applications Single and Twin



- Double acting seals retain lubrication and keep contamination out
- Easily mounted with four mounting bolts
- Built-in lubrication wick for continuous lubrication
- Travel speeds up to 10ft/s
- 1/2" has lubrication fitting, larger sizes have 1/4-28 access for lubrication

Cat. No.	Thomson	Dia.	A	B	C	+/- .003 D	E	F	Min. G	+/- .010 J	K	+/- .010 L	M Hole	Bolt	Dynamic Load Lbs	Price Each
Single																
TLM-750	SPB-8-OPN	.500	2.00	1.13	1.50	.687	.69	.75	.31	1.688	.25	1.000	.16	#6	180	60.98
TLM-755	SPB-10-OPN	.625	2.50	1.44	1.75	.875	.88	.94	.37	2.125	.28	1.125	.19	#8	320	70.30
TLM-760	SPB-12-OPN	.750	2.75	1.56	1.88	.937	.94	1.00	.43	2.375	.31	1.250	.19	#8	470	75.28
TLM-765	SPB-16-OPN	1.000	3.25	2.00	2.63	1.187	1.19	1.25	.56	2.875	.38	1.750	.22	#10	780	103.99
TLM-775	SPB-24-OPN	1.500	4.75	2.94	3.75	1.750	1.75	1.88	.75	4.125	.50	2.500	.28	.25	1,560	193.75
Twin																
TLM-905	TWN-8-OPN	.500	2.00	1.13	3.50	.687	.69	.75	.31	1.688	.25	2.500	.16	#6	360	122.01
TLM-910	TWN-10-OPN	.625	2.50	1.44	4.00	.875	.88	.94	.37	2.125	.28	3.000	.19	#8	640	140.74
TLM-915	TWN-12-OPN	.750	2.75	1.56	4.50	.937	.94	1.00	.43	2.375	.31	3.500	.19	#8	940	150.55
TLM-920	TWN-16-OPN	1.000	3.25	2.00	6.00	1.187	1.19	1.25	.56	2.875	.38	4.500	.22	#10	1,560	208.01
TLM-930	TWN-24-OPN	1.500	4.75	2.94	9.00	1.750	1.75	1.88	.75	4.125	.50	6.500	.28	.25	3,120	387.50

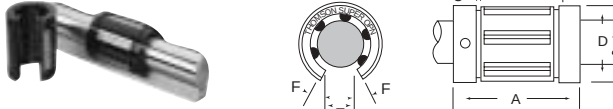
Super Ball Bushing® Pillow Blocks Closed Type For End Supported Applications Single and Twin



- Double acting seals retain lubrication and keep contamination out
- Easily mounted with four mounting bolts
- Travel speed up to 10ft/s

Cat. No.	Thomson	Dia.	A	B	C	+/- .010 D	+/- .010 E	F	G	J Hole	Bolt	+/- .003 K	L	Dynamic Load Lbs.	Price Each
Single															
TLM-705	SPB-4	.250	1.63	1.00	1.19	.750	1.313	.75	.19	.16	#6	.437	.81	60	46.61
TLM-710	SPB-6	.375	1.75	1.13	1.31	.875	1.438	.88	.19	.16	#6	.500	.94	100	48.61
TLM-715	SPB-8	.500	2.00	1.38	1.69	1.000	1.688	1.13	.25	.16	#6	.687	1.25	255	52.39
TLM-720	SPB-10	.625	2.50	1.75	1.94	1.125	2.125	1.44	.28	.19	#8	.875	1.63	450	57.92
TLM-725	SPB-12	.750	2.75	1.88	2.06	1.250	2.375	1.56	.31	.19	#8	.937	1.75	600	60.98
TLM-730	SPB-16	1.000	3.25	2.38	2.61	1.750	2.875	1.94	.38	.22	#10	1.187	2.19	1,050	87.65
TLM-735	SPB-20	1.250	4.00	3.00	3.63	2.000	3.500	2.50	.44	.22	#10	1.500	2.81	1,500	130.68
TLM-740	SPB-24	1.500	4.75	3.00	4.00	2.500	4.125	2.88	.50	.28	3/4	1.750	3.25	2,000	164.79
Twin															
TLM-850	TWN-4	.250	1.63	1.00	2.50	2.000	1.313	.75	.19	.16	#6	.437	.81	120	93.21
TLM-855	TWN-6	.375	1.75	1.13	2.75	2.250	1.438	.88	.19	.16	#6	.500	.94	200	97.43
TLM-860	TWN-8	.500	2.00	1.38	3.50	2.500	1.688	1.13	.25	.16	#6	.687	1.25	510	104.75
TLM-865	TWN-10	.625	2.50	1.75	4.00	3.000	2.125	1.44	.28	.19	#8	.875	1.63	900	115.82
TLM-870	TWN-12	.750	2.75	1.88	4.50	3.500	2.375	1.56	.31	.19	#8	.937	1.75	1,200	122.01
TLM-875	TWN-16	1.000	3.25	2.38	6.00	4.500	2.875	1.94	.38	.22	#10	1.187	2.19	2,100	175.27
TLM-880	TWN-20	1.250	4.00	3.00	7.50	5.500	3.500	2.50	.44	.22	#10	1.500	2.81	3,000	261.37
TLM-885	TWN-24	1.500	4.75	3.50	9.00	6.500	4.125	2.88	.50	.28	3/4	1.750	3.25	4,000	329.62

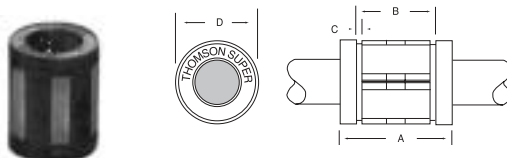
Super Ball Bushing® Bearings Open Type For Continuously Supported Applications



- Can be mounted in a customized open style pillow block
- Travel speeds up to 10ft/s
- Self aligning in all directions

Cat. No.	Thomson	Dia.	A	B	C	D	E	Ang. Deg. F	No. of Ball Circuits	Dynamic Load Lbs.	Price Each 1-9
TLM-450	Super 8-OPN	.500	1.250/1.230	1.032/1.012	.050	.8755/.8750	.31	15	3	180	25.00
TLM-455	Super 10-OPN	.625	1.500/1.480	1.105/1.095	.056	1.1255/1.1250	.37	15	4	320	26.56
TLM-460	Super 12-OPN	.750	1.625/1.605	1.270/1.250	.056	1.2505/1.2500	.43	15	5	470	27.27
TLM-465	Super 16-OPN	1.000	2.250/2.230	1.884/1.864	.070	1.5630/1.5625	.56	15	5	780	45.31
TLM-470	Super 20-OPN	1.250	2.625/2.600	2.004/1.984	.068	2.0008/2.0000	.62	15	5	1,170	76.72
TLM-475	Super 24-OPN	1.500	3.000/2.970	2.410/2.390	.086	2.3760/2.3750	.75	15	5	1,560	87.49

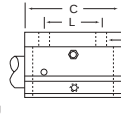
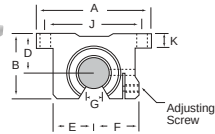
Super Ball Bushing® Bearings Closed Type For End Supported Applications



- Can be mounted in a customized housing
- Travel speeds up to 10ft/s
- Self aligning in all directions

Cat. No.	Thomson	Dia.	A	B	C	D	No. of Ball Circuits	Dynamic Load Lbs.	Price Each 1-9
TLM-405	Super 3	.188	.562/.547	—	—	.3755/.3750	4	35	19.55
TLM-410	Super 4	.250	.750/.735	.511/.501	.039	.5005/.5000	4	60	15.26
TLM-415	Super 6	.375	.875/.860	.699/.689	.039	.6255/.6250	4	100	17.38
TLM-420	Super 8	.500	1.250/1.230	1.032/1.012	.050	.8755/.8750	4	255	18.24
TLM-425	Super 10	.625	1.500/1.480	1.105/1.095	.056	1.1255/1.1250	5	450	19.66
TLM-430	Super 12	.750	1.625/1.605	1.270/1.250	.056	1.2505/1.2500	6	600	20.04
TLM-435	Super 16	1.000	2.250/2.230	1.884/1.864	.070	1.5630/1.5625	6	1,050	36.74
TLM-440	Super 20	1.250	2.625/2.600	2.004/1.984	.068	2.0008/2.0000	6	1,500	61.79
TLM-445	Super 24	1.500	3.000/2.970	2.410/2.390	.086	2.3760/2.3750	6	2,000	70.36

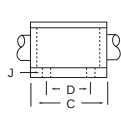
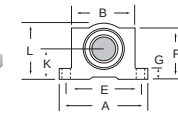
Super Smart Ball Bushing® Pillow Blocks Open Type For Continuously Supported Applications Single and Twin



- Increased travel life over conventional bearings
- Allows for heavier loads in less space than other bushings
- Interchangeable with Super Ball Bushing Pillow Blocks
- Travel speeds up to 10 ft/s
- Easily mounted with four mounting bolts

Cat. No.	Thomson	Dia.	A	B	C	+/- .003 D	E	F	Min. G	+/- .010 J	K	+/- .010 L	M Hole Bolt	Dynamic Load (Lbs.)	Price Each
Single															
TLM-1105	SSUPBO-8	.500	2.00	1.13	1.50	.687	.69	.75	.31	1.688	.25	1.000	.16 #6	360	60.98
TLM-1110	SSUPBO-10	.625	2.50	1.44	1.75	.875	.88	.94	.34	2.125	.28	1.125	.19 #8	620	70.30
TLM-1115	SSUPBO-12	.750	2.75	1.56	1.88	.937	.94	1.00	.41	2.375	.31	1.250	.19 #8	1,130	75.28
TLM-1120	SSUPBO-16	1.000	3.25	2.00	2.63	1.187	1.19	1.25	.53	2.875	.38	1.750	.22 #10	1,900	103.99
TLM-1130	SSUPBO-24	1.500	4.75	2.94	3.75	1.750	1.75	1.88	.74	4.125	.50	2.500	.28 .25	3,880	193.75
Twin															
TLM-1140	SSUTWNO-8	.500	2.00	1.13	3.50	.687	.69	.75	.31	1.688	.25	2.500	.16 #6	720	122.01
TLM-1145	SSUTWNO-10	.625	2.50	1.44	4.00	.875	.88	.94	.34	2.125	.28	3.000	.19 #8	1,240	140.74
TLM-1150	SSUTWNO-12	.750	2.75	1.56	4.50	.937	.94	1.00	.41	2.375	.31	3.500	.19 #8	2,260	150.55
TLM-1155	SSUTWNO-16	1.000	3.25	2.00	6.00	1.187	1.19	1.25	.53	2.875	.38	4.500	.22 #10	3,800	208.01
TLM-1165	SSUTWNO-24	1.500	4.75	2.94	9.00	1.750	1.75	1.88	.74	4.125	.50	6.500	.28 .25	7,760	387.50

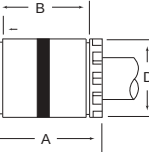
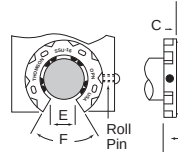
Super Smart Ball Bushing® Pillow Blocks Closed Type For End Supported Applications Single and Twin



- Increased travel life over conventional bearings
- Allows for heavier loads in less space than other bushings
- Interchangeable with Super Ball Bushing Pillow Blocks
- Travel speeds up to 10 ft/s
- Easily mounted with four mounting bolts

Cat. No.	Thomson	Dia.	A	B	C	+/- .010 D	+/- .010 E	F	G	J Hole Bolt	+/- .003 K	L	Dynamic Load (Lbs.)	Price Each
Single														
TLM-950	SSUPB-8	.500	2.00	1.38	1.69	1.000	1.688	1.13	.25	.16 #6	.687	1.25	265	52.39
TLM-955	SSUPB-10	.625	2.50	1.75	1.94	1.125	2.125	1.44	.28	.19 #8	.875	1.63	620	57.92
TLM-960	SSUPB-12	.750	2.75	1.88	2.06	1.250	2.375	1.56	.31	.19 #8	.937	1.75	1,130	60.98
TLM-965	SSUPB-16	1.000	3.25	2.38	2.81	1.750	2.875	1.94	.38	.22 #10	1.187	2.19	1,900	87.65
TLM-970	SSUPB-20	1.250	4.00	3.00	3.63	2.000	3.500	2.50	.44	.22 #10	1.500	2.81	2,350	130.68
TLM-975	SSUPB-24	1.500	4.75	3.50	4.00	2.500	4.125	2.88	.50	.28 #10	1.750	3.25	3,880	164.79
Twin														
TLM-1005	SSUTWN-8	.500	2.00	1.38	3.50	2.500	1.688	1.13	.25	.16 #6	.687	1.25	530	104.75
TLM-1010	SSUTWN-10	.625	2.50	1.75	4.00	3.000	2.125	1.44	.28	.19 #8	.875	1.63	1,240	115.82
TLM-1015	SSUTWN-12	.750	2.75	1.88	4.50	3.500	2.375	1.56	.31	.19 #8	.937	1.75	2,260	122.01
TLM-1020	SSUTWN-16	1.000	3.25	2.38	6.00	4.500	2.875	1.94	.38	.22 #10	1.187	2.19	3,800	175.27

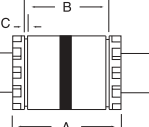
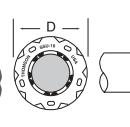
Super Smart Ball Bushing® Bearings Open Type For Continuously Supported Applications With or Without Wipers



- Increased travel life over conventional bearings
- Allows for heavier loads in less space than other bushings
- Interchangeable with Super Ball Bushing Bearings
- Travel speeds up to 10 ft/s

w/o Wipers	With 2 Wipers	Thomson	Dia.	A	B	C	D	E	Ang. Deg. F	No. Of Ball Circuits	Dynamic Load	Price Each 1-9 w/o Wipers w/Wipers
TLM-605	TLM-640	SSU8-OPN	.500	1.250/1.230	1.032/1.012	.050	.8755/.8750	.31	40	6	360	25.00 26.09
—	TLM-645	SSU10-OPN	.625	1.500/1.480	1.125/1.095	.055	1.2550/1.1250	.34	30	8	620	27.64
—	TLM-650	SSU12-OPN	.750	1.625/1.605	1.285/1.255	.055	1.2505/1.2500	.41	30	8	1,130	28.35
—	TLM-655	SSU16-OPN	1.000	2.250/2.230	1.901/1.871	.068	1.5603/1.5625	.53	30	8	1,190	46.39

Super Smart Ball Bushing® Bearings Closed Type For End Supported Applications With or Without Wipers

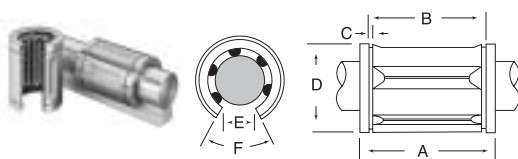


- Increased travel life over conventional bearings
- Allows for heavier loads in less space than other bushings
- Interchangeable with Super Ball Bushing Bearings
- Travel speeds up to 10 ft/s
- Can be mounted in a customized housing

w/o Wipers	With 2 Wipers	Thomson	Dia.	A	B	C	D	No. Of Ball Circuits	Dynamic Load (Lbs.)	Price Each 1-9 w/o Wipers w/Wipers
TLM-505	TLM-535	SS6U-8	.500	1.250/1.230	1.032/1.012	.050	.8755/.8750	6	265	18.24 19.32
—	TLM-540	SSU-10	.625	1.500/1.480	1.125/1.095	.055	1.1255/1.1250	10	620	20.74 21.13
TLM-515	TLM-545	SSU-12	.750	1.625/1.605	1.285/1.255	.055	1.2505/1.2500	10	1,130	20.04 21.13
TLM-520	TLM-550	SSU-16	1.000	2.250/2.230	1.901/1.871	.068	1.5603/1.5625	10	1,900	36.74 37.82
—	TLM-555	SSU-20	1.250	2.625/2.600	2.031/1.991	.068	2.0008/2.0000	10	2,350	62.88
—	TLM-560	SSU-24	1.500	3.000/2.970	2.442/2.402	.086	2.3760/2.3750	10	3,880	71.44



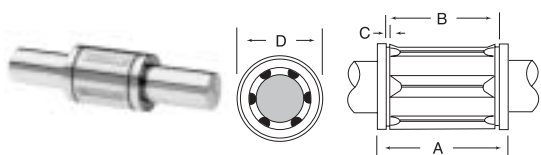
Precision Ball Bushing® Bearings Open Type for Continuously Supported Applications Steel Balls



- Coefficient of friction as low as 0.001
- All steel construction for maximum rigidity
- Travel speeds up to 10 ft/s
- High temperature capability
- Can be mounted in a customized open style pillow block
- Other sizes and types available as special order. Please call for price and delivery.

Cat. No.	Thomson	Dia.	A	B	C	D	E	Angle Degree F	No. of Ball Circuits	Dynamic Load Lbs.	Price Each 1-9
TLM-105	OPN-81420	.500	1.250/1.235	.987/.951	.046	.8760/.8740	.31	50	3	60	27.76
TLM-110	OPN-101824	.625	1.500/1.485	1.108/1.092	.056	1.2600/1.1240	.38	60	3	105	29.50
TLM-115	OPN-122026	.750	1.625/1.610	1.170/1.154	.056	1.2510/1.2490	.44	60	4	140	30.66
TLM-120	OPN-162536	1.000	2.250/2.235	1.759/1.741	.068	1.5635/1.5615	.56	60	4	240	50.72

Precision Ball Bushing® Bearings Closed Type for End Supported Applications Steel and Stainless Steel Balls



- Coefficient of friction as low as 0.001
- All metal construction for maximum rigidity
- Travel speeds up to 10 ft/s
- High temperature capability
- Can be mounted in customized housing
- Other sizes and types available as special order. Please call for price and delivery.

Steel Cat. No.	Thomson	Stainless Cat. No.	Thomson Part No.	Dia.	A	B	C	D	No. of Ball Circuits	Dynamic Load (Lbs.)	Price Each 1-9
TLM-10	A-4812	TLM-50	A-4812SS	.250	.750/.735	.515/.499	.039	.5000/.4996	3	19	17.09
TLM-15	A-61014	TLM-55	A-61014SS	.375	.875/.860	.640/.624	.039	.6250/.6246	4	37	19.25
TLM-20	A-81420	TLM-60	A-81420SS	.500	1.250/1.235	.967/.951	.046	.8750/.8746	4	85	20.51
TLM-25	A-101824	—	—	.625	1.500/1.485	1.108/1.092	.056	1.1250/1.1246	4	150	21.92
TLM-30	A-122026	TLM-65	A-122026SS	.750	1.625/1.610	1.170/1.154	.056	1.2500/1.2496	5	200	22.34
TLM-35	A-162536	—	—	1.000	2.250/2.235	1.759/1.741	.068	1.5625/1.5621	5	350	40.00
TLM-40	A-203242	—	—	1.250	2.625/2.605	2.009/1.991	.068	2.0000/1.9995	6	520	68.77
TLM-45	A-243848	—	—	1.500	3.000/2.980	2.415/2.397	.086	2.3750/2.3745	6	770	77.98

Note: 60 Case® LinearRace® shafts are not recommended for these bearings. "S" style shafting is recommended and available as special order. Please call for price and delivery.

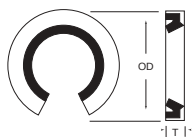
Bearing Accessories Seals For Closed Type Bearings



Double acting seals for Super Smart, Super and Precision closed type ball bushing bearings.

Cat. No.	Thomson	For Use With Thomson Bearing No.	Race Diameter	T	OD	Price Each 1-9
TLM-250	S-250	Super-4 or 4812	.250	.125	.504	4.94
TLM-255	S-375	Super-6 or 61014	.375	.125	.629	4.94
TLM-260	S-500	Super-8 or 81420	.500	.125	.879	4.94
TLM-265	S-625	SSU-10 or Super-10 or 101824	.625	.125	1.129	4.94
TLM-270	S-750	SSU-12 or Super-12 or 122026	.750	.125	1.254	4.94
TLM-275	S-1000	SSU-16 or Super-16 or 162536	1.000	.187	1.567	6.18
TLM-280	S-1250	SSU-20 or Super-20 or 203242	1.250	.375	2.004	10.73
TLM-285	S-1500	SSU-24 or Super-24 or 243848	1.500	.375	2.379	13.50

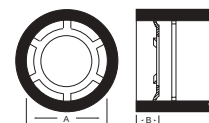
Seals For Open Type Bearings



Double acting seals for Super Smart, Super and Precision open type ball bushing bearings.

Cat. No.	Thomson	For Use With Thomson Bearing No.	Race Diameter	T	OD	Price Each 1-9
TLM-305	OPN-S-500	Super-8 or 81420	.500	.125	.879	6.16
TLM-310	OPN-S-625	SSU-10 or Super-10 or 101824	.625	.125	1.129	6.16
TLM-315	OPN-S-750	SSU-12 or Super-12 or 122026	.750	.125	1.254	6.16
TLM-320	OPN-S-1000	SSU-16 or Super-16 or 162536	1.000	.187	1.567	7.59
TLM-325	OPN-S-1250	SSU-20 or Super-20 or 203242	1.250	.375	2.004	12.40
TLM-330	OPN-S-1500	SSU-24 or Super-24 or 243848	1.500	.375	2.379	15.20

Internal Retaining Rings (Type PR)

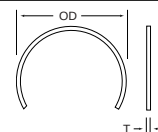


Push in retaining rings are for use with Super Smart, Super and Precision ball bushing bearings, closed type. Each retaining ring is installed inside the housing bore at each end of the bearing.

Cat. No.	Thomson	For Use With Thomson Bearing No.	A	B*	Price Each 1-99
TLM-150	PR-250	Super-4 or 4812	.500	.060	.11
TLM-155	PR-375	Super-6 or 61014	.625	.060	.41
TLM-160	PR-500	Super-8 or 81420	.875	.080	.37
TLM-165	PR-625	SSU-10 or Super-10 or 101824	1.125	.080	.41
TLM-170	PR-750	SSU-12 or Super-12 or 122026	1.250	.080	.43
TLM-175	PR-1000	SSU-16 or Super-16 or 162536	1.563	.080	.76
TLM-180	PR-1250	SSU-20 or Super-20 or 203242	2.000	.080	.98
TLM-185	PR-1500	SSU-24 or Super-24 or 243848	2.375	.100	1.65

*Minimum end space required.

External Retaining Rings (Type W)

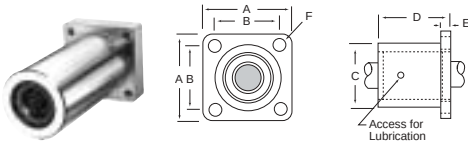


Fits into the retaining ring grooves on the outside diameter of Super Smart, Super and Precision ball bushing bearings to provide external mounting retention.

Cat. No.	Thomson	For Use With Thomson Bearing No.	T	OD	Price Each 1-99
TLM-205	C-250	Super-4 or 4812	.035	.550	.32
TLM-210	C-375	Super-6 or 61014	.035	.673	.34
TLM-215	C-500	Super-8 or 81420	.042	.923	.41
TLM-220	C-625	SSU-10 or Super-10 or 101824	.050	1.180	.48
TLM-225	C-750	SSU-12 or Super-12 or 122026	.050	1.301	.53
TLM-230	C-1000	SSU-16 or Super-16 or 162536	.062	1.620	.92
TLM-235	C-1250	SSU-20 or Super-20 or 203242	.062	2.040	1.25
TLM-240	C-1500	SSU-24 or Super-24 or 243848	.078	2.429	2.07



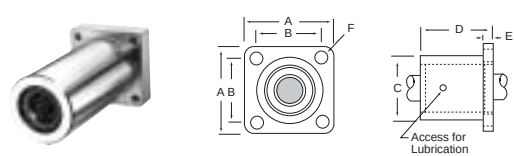
Super Ball Bushing® Flanged Pillow Blocks For End Supported Applications Single and Twin



- Easily mounted and secured with four mounting bolts
- Can be mounted perpendicular to table surface
- These pillow blocks are interchangeable with the Super Smart Ball Bushing® Flanged Pillow Blocks
- Allows for travel speeds up to 10ft/s

Cat. No.	Thomson	Dia.	A	+/- .010 B	C	D	E	F	Dynamic Load (Lbs.)	Price Each
Single										
TLM-805 SFB-8		.500	1.63	1.250	1.25	1.69	.25	.19	255	65.10
TLM-810 SFB-12		.750	2.38	1.750	1.75	2.06	.38	.21	600	76.86
TLM-815 SFB-16		1.000	2.75	2.125	2.25	2.81	.50	.28	1,050	104.83
Twin										
TLM-820 TSFB-8		.500	1.63	1.250	1.25	3.20	.90	1/4-20	510	126.18
TLM-825 TSFB-12		.750	2.38	1.750	1.75	3.95	.90	1/4-20	1,200	148.95
TLM-830 TSFB-16		1.000	2.75	2.125	2.25	5.33	.90	5/16-18	2,100	203.36

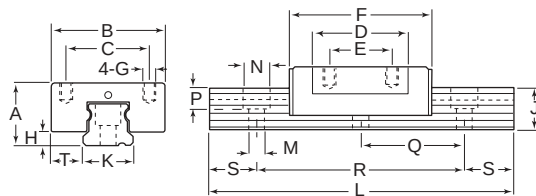
Super Smart Ball Bushing® Flanged Pillow Blocks For End Supported Applications Single and Twin



- Easily mounted and secured with four mounting bolts
- Can be mounted perpendicular to table surface
- These pillow blocks are interchangeable with the Super Ball Bushing® Flanged Pillow Blocks
- Allows for travel speeds up to 10ft/s

Cat. No.	Thomson	Dia.	A	+/- .010 B	C	D	E	F	Dynamic Load (Lbs.)	Price Each
Single										
TLM-1205 SS6UFB-8		.500	1.63	1.250	1.25	1.69	.25	.19	265	65.10
TLM-1210 SS6UFB-12		.750	2.38	1.750	1.75	2.06	.38	.22	1,130	76.86
TLM-1215 SS6UFB-16		1.000	2.75	2.125	2.25	2.81	.50	.28	1,900	104.93
TLM-1220 SS6UFB-20		1.250	3.50	2.750	3.00	3.63	.63	.35	2,350	149.77
TLM-1225 SS6UFB-24		1.500	4.00	3.125	3.62	4.00	.75	.41	3,880	191.86
Twin										
TLM-1235 SS6UTFB-8		.500	1.63	1.250	1.25	3.20	.90	1/4-20	530	126.18
TLM-1240 SS6UTFB-12		.750	2.38	1.750	1.75	3.95	.90	1/4-20	2,260	148.95
TLM-1245 SS6UTFB-16		1.000	2.75	2.125	2.25	5.33	.90	5/16-18	3,900	203.36
TLM-1250 SS6UTFB-20		1.250	3.50	2.750	3.00	6.70	.90	5/16-18	4,700	234.33

SKF® MINIATURE PROFILE RAIL GUIDES



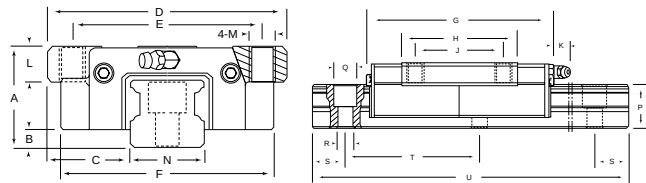
Ideal for precision applications where mounting space is limited. Small and lightweight with high load carrying capacity and high speed linear motion up to 3m/second. Gothic arch grooves at the raceway contacts enable the slide to sustain loads and movements from any direction. Height tolerance is +/- .020". Width tolerance is +/- .025". Free of clearance, no preload for applications with constant load and low friction. All parts are stainless steel or plastic for corrosion resistance. End caps have oil holes for easy relubrication. All dimensions are in millimeters.

Cat. No.	Number Of Carriages	L	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	Basic Load Rating* (Lbs.)	Price Each
SKF-0	1	80	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	60	10	5.5	416	73.41
SKF-1	1	110	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	80	15	5.5	416	80.47
SKF-2	2	110	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	80	15	5.5	416	118.59
SKF-3	1	140	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	120	10	5.5	416	87.53
SKF-4	2	140	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	120	10	5.5	416	127.05
SKF-5	1	170	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	140	15	5.5	416	94.59
SKF-6	2	170	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	140	15	5.5	416	134.12
SKF-7	2	200	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	180	10	5.5	416	141.17
SKF-8	2	260	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	240	10	5.5	416	155.29
SKF-9	2	290	10	20	15	21.5	10	32	M3x3	2	6.5	9	2.5	4.5	3.3	20	260	15	5.5	416	163.76
SKF-10	1	110	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	75	17.5	7.5	573	87.53
SKF-11	1	150	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	125	12.5	7.5	573	98.83
SKF-12	2	150	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	125	12.5	7.5	573	144.00
SKF-13	1	190	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	150	20	7.5	573	108.71
SKF-14	2	190	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	150	20	7.5	573	153.88
SKF-15	1	230	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	200	15	7.5	573	118.59
SKF-16	2	230	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	200	15	7.5	573	163.77
SKF-17	2	310	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	275	17.5	7.5	573	184.93
SKF-18	2	390	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	350	20	7.5	573	204.71
SKF-19	2	470	13	27	20	23	15	36	M3x3.5	3	8.8	12	3.5	6	4.5	25	450	10	7.5	573	225.88
SKF-20	1	110	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	80	15	8	742	118.59
SKF-21	1	150	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	120	15	8	742	134.12
SKF-23	1	190	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	160	15	8	742	151.05
SKF-24	2	190	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	160	15	8	742	210.36
SKF-25	1	230	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	200	15	8	742	166.59
SKF-26	2	230	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	200	15	8	742	225.88
SKF-27	2	310	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	280	15	8	742	258.36
SKF-28	2	390	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	340	25	8	742	290.83
SKF-29	2	470	14	40	28	32.5	15	45.5	M3x3.5	3	8.8	24	4.5	8	4.5	40	440	15	8	742	323.29

* Basic load rating is the constant load which a system can theoretically accept for a nominal life of 100,000 m of travel with 90% reliability.

SKF LINEAR RAIL SYSTEMS

Profile Rails



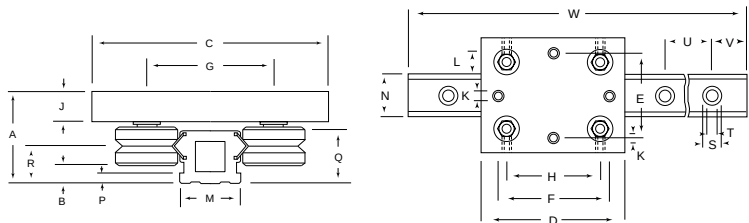
Profile rail guides are used in the production of linear guidance systems with unlimited travel. They consist of a profile rail with four precision ground raceways and a slide unit with four ball circulation paths. The square configuration of the raceways results in a guidance system with good rigidity, capable of withstanding moment loads in all directions. The load carrying capacity is equal in all four directions. Grease nipples are provided except on SKF-150 and 200. Low vibration and low noise. The units are supplied with a light pre-loaded to cover a wide variety of applications. Case hardened steel. Lubricated with a lithium based grease. Dimensions are in millimeters. Carriages and rails are sold separately. **See page 371 for linear rail covers.**

Carriages

Cat. No.	A	C	D	E	F	G	H	J	K	L	M	Load Rating Lbs.		Price Each
												Dynamic	Static	
SKF-150	24	16.0	47	38	46.5	71	41	30	—	7	M5 x 7	1,652	2,608	75.77
SKF-200	30	21.5	63	53	60.0	91	58	40	—	8	M6 x 10	2,900	4,676	93.24
SKF-250	36	23.5	70	57	66.0	97	59	45	10	10	M8 x 12	3,822	5,945	110.15
SKF-300	42	31.0	90	72	81.0	111	68	52	10	13	M10 x 14	5,305	7,980	138.93
SKF-350	48	33.0	100	82	92.0	128	80	62	10	13	M10 x 16	7,081	10,453	180.93

Rails

Cat. No.	Use with Carriage No.	B	N	P	Q	R	S	T	U	Price Each
SKF-151	SKF-150	4.6	15	17	7.5	4.5	20	60	220	53.11
SKF-152	SKF-150	4.6	15	17	7.5	4.5	20	60	460	111.13
SKF-153	SKF-150	4.6	15	17	7.5	4.5	20	60	820	198.40
SKF-201	SKF-200	5.0	20	21	9.5	6.0	20	60	280	66.12
SKF-202	SKF-200	5.0	20	21	9.5	6.0	20	60	640	150.53
SKF-203	SKF-200	5.0	20	21	9.5	6.0	20	60	1,000	236.27
SKF-251	SKF-250	6.5	23	24	11.0	7.0	20	60	340	78.77
SKF-252	SKF-250	6.5	23	24	11.0	7.0	20	60	820	189.87
SKF-253	SKF-250	6.5	23	24	11.0	7.0	20	60	1,240	286.93
SKF-254	SKF-250	6.5	23	24	11.0	7.0	20	60	1,600	370.00
SKF-301	SKF-300	7.0	28	28	14.0	9.0	20	80	440	112.53
SKF-302	SKF-300	7.0	28	28	14.0	9.0	20	80	760	192.67
SKF-303	SKF-300	7.0	28	28	14.0	9.0	20	80	1,240	314.00
SKF-304	SKF-300	7.0	28	28	14.0	9.0	20	80	1,640	414.93
SKF-305	SKF-300	7.0	28	28	14.0	9.0	20	80	2,040	516.27
SKF-306	SKF-300	7.0	28	28	14.0	9.0	20	80	2,520	637.20
SKF-351	SKF-350	8.0	34	32	14.0	9.0	20	80	440	129.41
SKF-352	SKF-350	8.0	34	32	14.0	9.0	20	80	760	223.50
SKF-353	SKF-350	8.0	34	32	14.0	9.0	20	80	1,240	364.27
SKF-354	SKF-350	8.0	34	32	14.0	9.0	20	80	1,640	481.07
SKF-355	SKF-350	8.0	34	32	14.0	9.0	20	80	2,040	599.20
SKF-356	SKF-350	8.0	34	32	14.0	9.0	20	80	2,520	740.00



Speedi-Roll was developed giving high priority to lightweight construction and ease of installation. Speedi-Roll is a linear guide system with high load carrying capacity, rigidity and torque resistance, consisting of a guide rail and carriage with either four or six rollers. Rollers are lubricated for life, greatly reducing the need for service. The rail is composed of a drawn and anodized aluminum body with hardened steel angle raceways fitted on each side. Base plate is also anodized aluminum with factory-fitted rollers. Elastic elements around the threaded bolts adjust and fix the rollers in the base plate avoiding the risk of mounting error. The units are supplied with a light pre-load to cover a wide variety of applications. Dimensions in millimeters. Carriages and rails are sold separately.

Cat. No.	A	C	D	E	F	G	H	J	K	L	Permissible Loads Lbs.		Price Each
											Top	Side	
SKF-115	25.0	65	70	50	60	39.3	45	6.05	M5	14	157	148	118.63
SKF-125	35.5	80	90	59	70	45.8	60	12.10	M8	17	225	315	135.60
SKF-135	54.3	120	100	90	70	61.3	65	19.40	M10	21	562	562	168.00

Rails

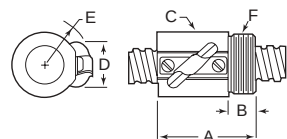
Cat. No.	Use with Carriage No.	B	M	N	P	Q	R	S	T	U	V	W	Price Each
SKF-158	SKF-115	3.75	18	24.9	2	17	10.8	9.5	5.5	62.5	31.25	1,000	116.00
SKF-159	SKF-115	3.75	18	24.9	2	17	10.8	9.5	5.5	62.5	31.25	2,000	226.67
SKF-257	SKF-125	7.70	23	29.9	4	21	14.7	11.0	6.5	125.0	62.50	1,000	118.67
SKF-258	SKF-125	7.70	23	29.9	4	21	14.7	11.0	6.5	125.0	62.50	2,000	233.33
SKF-259	SKF-125	7.70	23	29.9	4	21	14.7	11.0	6.5	125.0	62.50	3,000	346.67
SKF-357	SKF-135	12.35	36	42.9	7	29	22.8	20.0	11.0	250.0	125.00	1,000	142.93
SKF-358	SKF-135	12.35	36	42.9	7	29	22.8	20.0	11.0	250.0	125.00	2,000	279.20
SKF-359	SKF-135	12.35	36	42.9	7	29	22.8	20.0	11.0	250.0	125.00	3,000	408.27



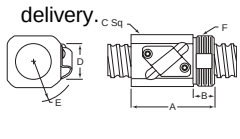
NOOK BALL SCREWS, NUTS AND FLANGES

NOOK INDUSTRIES, INC.

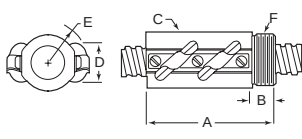
Ball screws are convenient and efficient devices for converting rotary to linear motion. Because of their reliability and high efficiency they are utilized in replacing conventional methods of power transmission. Their high efficiency is developed by using bearing balls to limit friction between the nut and the screw. Unlimited travel is achieved by recirculating the bearing balls through return guides. All ball screws are right hand thread. Made of high quality alloy steel, induction hardened to RC 56-60. Flanges and nuts are made of carburized steel with ball tracks heat treated to RC 58-60. Both ball screws and nuts have a protective black oxide finish. Ball screws will not deviate from nominal lead by more than .004 inch per foot. Wiper kits sold separately below. Left hand thread and other sizes and various machined ends available as special orders. Call for price and delivery.



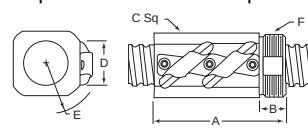
AR-315



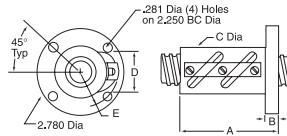
AR-313, 314, 316



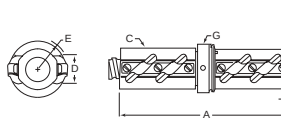
AR-344 thru AR-348



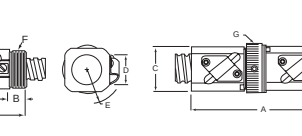
AR-349, 350



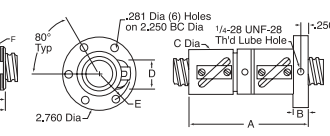
AR-351



AR-353 thru AR-357



AR-352, 358, 359



AR-360

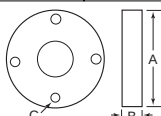
Ball Nuts - Right Hand Thread

Ball Nut Cat. No.	Ball Circle Diameter	Lead	A	B	C	D	E	F	G	Load Lbs.		Price Each	Wiper Kit Cat. No.	Price Each
										Dynamic	Static			
Single Circuit														
AR-313	.500	.500	1.875	.375	1.000	.607	.660	1 1/8-16	—	786	4,131	120.84	—	—
AR-314	.631	.200	1.710	.500	1.000	.822	.796	1 1/8-16	—	815	6,384	28.20	AR-370	53.10
AR-315	.750	.200	1.875	.500	1.312	.863	.886	1.173-18	—	1100	8,569	45.32	AR-371	29.14
AR-316	1.000	.250	2.347	.600	1.500	1.104	1.152	1.563-18	—	1,612	13,913	42.29	AR-374	46.40
Double Circuit														
AR-344	.750	.200	2.875	.500	1.312	.863	.886	1.173-18	—	2,200	17,138	167.24	AR-371	29.14
AR-345	.750	.500	2.927	.500	1.312	.863	.937	1.173-18	—	2,723	17,425	167.24	AR-371	29.14
AR-350	1.000	.250	3.000	.600	1.500	1.104	1.152	1.563-18	—	3,224	27,826	100.35	AR-373	29.14
AR-351	1.000	.250	3.000	.375	1.625	1.150	1.107	—	—	3,224	27,826	248.15	AR-374	46.40
AR-346	1.000	.500	3.130	.625	1.687	1.080	1.109	1.563-18	—	3,440	25,250	199.61	AR-375	43.16
AR-349	1.000	1.000	3.000	.600	1.500	1.022	1.062	1.563-18	—	2,142	11,925	102.51	AR-376	29.14
AR-347	1.500	1.000	3.628	1.000	2.625	1.718	1.720	2 3/4-20	—	7,560	34,662	275.13	AR-377	43.16
AR-348	1.500	1.875	5.000	1.000	2.625	1.576	1.680	2 3/4-20	—	7,242	29,895	294.55	AR-378	51.30
Preloaded														
AR-352	.631	.200	3.310	.500	1.000	.822	.796	1 1/8-18	1.128	815	6,384	161.84	AR-370	53.10
AR-353	.750	.200	6.120	.500	1.312	.863	.886	1.173-18	1.688	2,200	17,138	453.15	AR-371	29.14
AR-354	.750	.500	6.190	.500	1.312	.863	.937	1.173-18	1.688	2,723	17,425	453.15	AR-371	29.14
AR-360	1.000	.250	4.438	.500	1.620	1.064	1.107	—	—	1,612	13,913	971.04	AR-373	29.14
AR-359	1.000	.250	4.847	.600	1.500	1.104	1.152	1.563-18	1.615	1,812	13,913	258.94	AR-374	46.40
AR-355	1.000	.500	6.66	.625	1.687	1.080	1.109	1.583-18	2.065	3,440	25,250	552.41	AR-375	43.16
AR-358	1.000	1.000	6.153	.600	1.500	1.022	1.062	1.563-18	1.615	2,142	11,925	528.68	AR-376	29.14
AR-356	1.500	1.000	7.628	1.000	2.625	1.718	1.720	2 3/4-20	3.025	7,560	34,662	863.14	AR-377	43.16
AR-357	1.500	1.500	10.625	1.000	2.625	1.576	1.680	2 3/4-20	3.025	7,242	29,895	992.61	AR-378	51.30

Ball Screws

Cat. No.	Ball Circle Dia.	Lead	Length Ft.	Price Each	Cat. No.	Ball Circle Dia.	Lead	Length Ft.	Price Each
AR-303	.500	.500	4	92.64	AR-327	1.000	.500	12	302.10
AR-302	.631	.631	2	23.74	AR-328	1.000	.500	16	483.36
AR-304	.631	.200	4	44.31	AR-329	1.000	1.000	4	120.84
AR-307	.631	.200	6	59.35	AR-330	1.000	1.000	8	241.68
AR-305	.750	.200	4	88.62	AR-331	1.000	1.000	12	302.10
AR-308	.750	.200	8	189.89	AR-332	1.000	1.000	16	483.36
AR-309	.750	.200	12	237.36	AR-333	1.500	1.000	4	189.89
AR-310	.750	.500	4	94.95	AR-334	1.500	1.000	8	379.78
AR-312	.750	.500	8	189.89	AR-335	1.500	1.000	12	447.86
AR-317	.750	.500	12	237.36	AR-336	1.500	1.000	16	759.57
AR-306	1.000	.250	4	88.62	AR-337	1.500	1.000	20	949.46
AR-318	1.000	.250	8	241.68	AR-338	1.500	1.875	4	198.89
AR-319	1.000	.250	12	302.10	AR-339	1.500	1.875	8	397.05
AR-320	1.000	.250	16	483.36	AR-340	1.500	1.875	12	661.74
AR-322	1.000	.500	4	120.84	AR-341	1.500	1.875	16	794.09
AR-324	1.000	.500	8	241.68	AR-342	1.500	1.875	20	992.61

Flanges



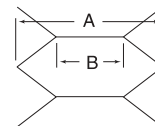
Cat. No.	For Nuts With Ball Circle Dia.	A	B	C	Price Each
AR-323*	.631	2.60	.53	.266	25.18
AR-325	.750	2.59	.53	.281	30.21
AR-326	1.000	3.25	.64	.266	32.22
AR-417	1.500	4.937	1.020	.531	48.56

*Works with nuts with .500 ball circle dia. also.

BALL SCREW COVERS



- Protect ball screw from oil, coolants, grease, chips and dust
- One foot of open length closes to 0.57"
- Temperature range is 4°F to 248°F



Compact protection for precision ball screws. Cover comes with internal guide rings and is suitable for vertical and horizontal applications. Made of neoprene coated nylon. Instructions included with each mounting kit. Sold by the foot. Due to custom cutting, no returns can be made. Color is black. Order by open length. Covers are only designed to fit the ball screw catalog numbers listed to the right.

Cover Cat. No.	Fits Over Cat. No.	A	B	Price Per Foot	Mtg. Kit Cat. No.	Price Each
MPC-631	AR-302-304, AR-307 and TBS-17-29	3.35	1.18	29.56	MPC-1631	29.00
MPC-750	AR-305, AR-308-317 and TBS-32-47	3.35	1.39	29.56	MPC-1750	29.00
MPC-100	AR-318-332, AR-306 and TBS-62-101	3.62	1.57	30.00	MPC-1100	29.00
MPC-150	AR-333-342 and TBS-107-116	3.62	2.05	30.50	MPC-1150	29.00



Precision Lead Screws and Nuts



Precision Acme lead screws are specifically designed for translating rotary motion into linear travel with accuracy and smoothness that are superior to general purpose Acme screws. Precision Acme lead screws are made from 4140 series alloy steel. Threads are rolled 2-C centralizing design. This thread form prevents wedging between nut and screw if subjected to radial loading. Screws have a minimum hardness of 200 Brinell. Tensile strength is rated at 95,000 psi and lead accuracy is maintained at $\pm .003$ in./ft. Screw ends are de-burred and ready for end machining. Each screw is roller burnished and black oxidized to a smooth finish, thereby maximizing travel efficiency. The matching travel nuts are engineered with the same

2-C centralizing thread form. Bronze nuts have ultimate tensile of 65,000 psi and a hardness of RB 75. A lubricated bronze nut has a dynamic COF of .125. The plastic nuts are quieter, more efficient and will equal or exceed the life of conventional travel nut materials. Tensile strength at 70°F is 8,000 psi. COF for a lubricated plastic nut is .075 (.160 unlubricated). Loads can be mounted to the travel nut or assembly with steel flanges. These flanges thread directly onto the travel nut. Nut and flange must be secured with a set screw or other pinning device. Application loads can be mounted to the flange via four pre-drilled, equally spaced holes. Mounting holes are .266" in diameter and spaced on the bolt center diameter (BCD) listed below. Other sizes and various machine ends available as special order. Please call for price and delivery.

Acme Threaded Rod

		3 Foot Length			6 Foot Length		
		Right Hand		Left Hand		Right Hand	
Thread Size		Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
1/4	16	AR-1	24.82	—	—	—	—
3/8	12	AR-2	24.82	AR-12	24.82	—	—
1/2	10	AR-3	21.01	AR-13	28.89	AR-23	42.02
5/8	8	AR-4	23.64	AR-14	29.95	AR-24	47.28
3/4	6	AR-5	36.24	AR-15	36.24	AR-25	72.49
7/8	6	AR-6	39.13	AR-16	39.40	AR-26	78.27

Acme Nuts

		Bronze			Plastic		
		Right Hand		Left Hand		Right Hand	
Thread Size		Cat. No.	Price Each	Cat. No.	Price Each	Cat. No.	Price Each
1/4	16	AR-201	20.37	—	—	AR-222	22.44
3/8	12	AR-202	12.58	AR-212	22.44	AR-223	14.45
1/2	10	AR-203	14.37	AR-213	17.42	AR-224	15.30
5/8	8	AR-204	15.13	AR-214	20.06	AR-225	22.16
3/4	6	AR-205	15.30	AR-215	20.93	AR-226	40.28
7/8	6	AR-206	21.68	AR-216	26.56	—	—

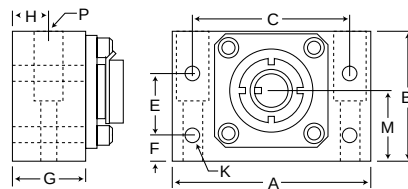
Steel Flanges

Steel Flanges							Hole Spacing						
Cat. No.	For Acme Nuts with Thread Size	Internal Thread Size	Flange Dia.	Flange Thickness	Bolt Circle Diameter	Price Each	Cat. No.	For Acme Nuts For Thread Size	Internal Thread Size	Flange Dia.	Flange Thickness	Bolt Circle Diameter	Price Each
AR-101	¼-16 and ⅜-12	⅝-18	1.60	.410	1.125	20.72	AR-103	¾-6	1-18	2.60	.530	2.090	22.53
AR-102	½-10 and ⅝-8	1⅝-16	2.60	.530	2.090	20.72	AR-104	⅞-6	1⅜-18	2.76	.520	2.260	22.53

Universal Mounts for Acme and Ball Screws



Use grade 8 hex socket head cap screws for mounting.

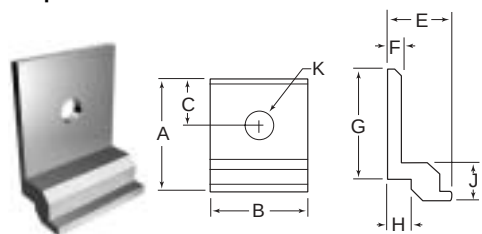


Cat. No.	Fits Acme	Fits Ball	Lead	A	B	C	E	F	G	H	K	M	P*		Price Each
	Screw Dia.	Screw Dia.											Thru	Countersink	
AR-402	1/2	—	—	2.75	2.00	2.00	1.38	.310	1.19	.56	.28	1.000	.34	.5x.56	181.47
AR-403	3/8	—	—	2.75	2.00	2.00	1.38	.310	1.18	.56	.28	1.000	.34	.5x.56	204.16
AR-404	1/4	.631	.200	3.50	2.22	2.75	1.25	.500	1.38	.69	.28	1.187	.41	.62x1	260.87
AR-405	3/8	.750	.200	3.50	2.52	2.75	1.25	.800	1.38	.69	.28	1.438	.41	.52x1	260.87
AR-406	—	1.000	.25-1.0	5.00	3.03	3.75	1.50	.750	1.72	.86	.47	1.625	.66	1x1.5	306.23
AR-407	—	1.500	1.000	6.50	3.69	4.75	2.00	.875	1.94	.87	.66	1.875	.91	1.38x1.75	366.84
AR-408	—	1.500	1.875	6.50	3.69	4.75	2.00	.875	1.94	.87	.66	1.875	.91	1.38x1.75	404.61

*Screw length based on 1.5 x. dia. extension beyond housing.

ALUMINUM EXTRUSION ACCESSORIES

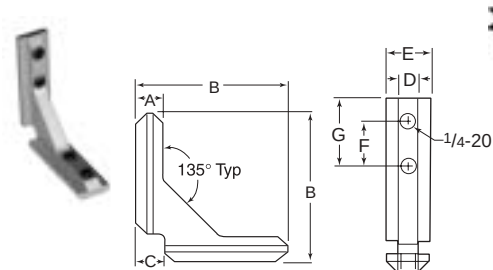
Drop In Panel Brackets



This strong fastening bracket can be quickly and easily loaded from the face of 15 and 40 series T-slot aluminum extrusion. No fastener required to directly mount bracket to extrusion itself. **See page 380 for aluminum extrusion.** Made from 6105-T5 aluminum, with a clear anodized finish. Can be used as a shelf bracket.

Cat. No.	A	B	C	E	F	G	H	J	K	Price Each
TST-2489	1.190	1.000	.500	.573	.130	1.000	.217	.335	.281	3.55
TST-2488	1.812	1.500	.750	.782	.130	1.500	.306	.500	.328	4.04

Inside Corner Connector



Installs quickly to provide a strong internal 90° connection with 15 and 40 series T-slot aluminum extrusion. **See page 380 for extrusion.** Made from 6105-T5 aluminum with a clear anodized finish. Four 1/4-20 x 1/2" set screws included. No machining necessary.

Cat. No.	A	B	C	D	E	F	G	Price Each
TST-3364	.436	2.500	.475	.310	.625	.625	.962	7.00



BALL SCREWS AND BALL NUTS

Ball Screws

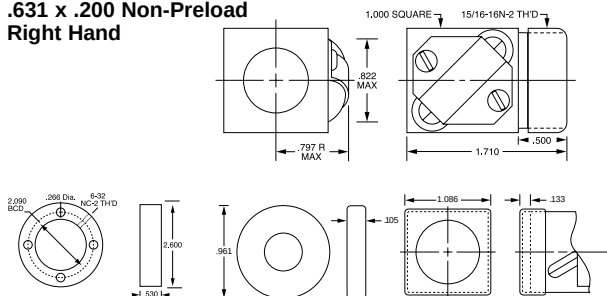


Thomson Saginaw ball screws offer over 90% efficiency converting rotary motion to linear motion with low coefficient of friction. When replacing screws, hydraulics or pneumatics, they allow the use of smaller, less expensive drive motors and reduce the need for auxiliary equipment. They also offer dependable accuracy and repeatability at an economical price. Made of high-quality alloy steel hardened to rockwell 56-60C. Lead accuracy of .004 in./ft. Straight within .010 in./ft. and do not exceed .030" in any 6 foot section. All of the Thomson products listed below are in stock for same day shipment. Other sizes and styles are available. Please call for price and delivery.

Cat. No.	Ball Circle Dia.	Lead	Length	Price Each	Cat. No.	Ball Circle Dia.	Lead	Length	Price Each
TBS-17	.631	.200	24	24.48	TBS-68	1.000	.250	48	124.80
TBS-20	.631	.200	36	36.72	TBS-71	1.000	.250	60	156.00
TBS-23	.631	.200	48	48.96	TBS-80	1.000	.500	36	90.00
TBS-26	.631	.200	60	61.20	TBS-83	1.000	.500	48	120.00
TBS-29	.631	.200	72	73.44	TBS-86	1.000	.500	60	199.50
TBS-32	.750	.200	24	49.44	TBS-89	1.000	.500	72	180.00
TBS-35	.750	.200	36	76.14	TBS-95	1.000	1.000	36	93.60
TBS-38	.750	.200	48	98.88	TBS-107	1.500	.250	24	94.56
TBS-47	.750	.500	24	49.44	TBS-110	1.500	.250	36	141.84
TBS-62	1.000	.250	24	70.35	TBS-116	1.500	.250	60	236.40
TBS-65	1.000	.250	36	93.60					

Precision Ball Nuts

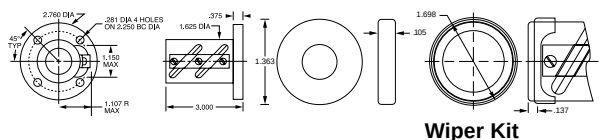
.631 x .200 Non-Preload Right Hand



Flange			Wiper Kit			
Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-412	7820827	.631	.200	778	6,384	23.87
Flange Cat. No.	Thompson Part No.	Price Each	Wiper Kit Cat. No.	Thompson Part No.	Price Each	
TBS-156	5707570	29.44	TBS-190	5702647	58.67	

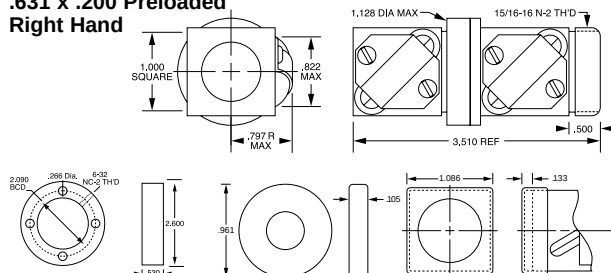
Precision Ball Nuts

1.000 x .250 Non-Preload Right Hand - Integral Flange



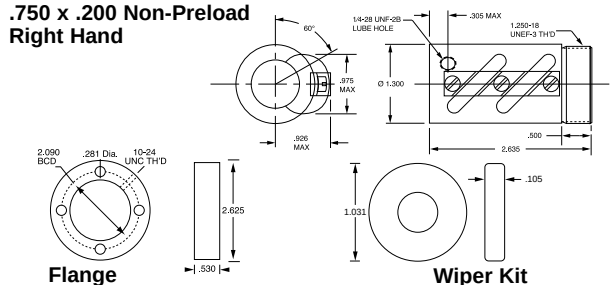
Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each	Wiper Kit Cat. No.	Thompson Part No.	Price Each
TBS-427	5708278	1.000	.250	3,224	27,826	262.94	TBS-202	5702651	50.24

.631 x .200 Preloaded Right Hand



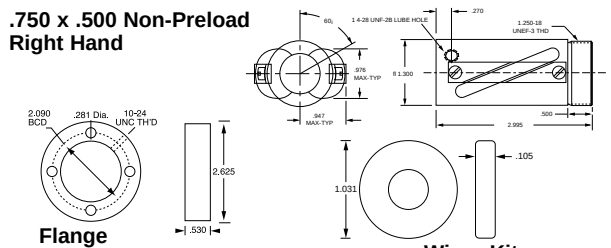
Flange			Wiper Kit			
Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-415	7820955	.631	.200	778	6,384	169.29
Flange Cat. No.	Thompson Part No.	Price Each		Wiper Kit Cat. No.	Thompson Part No.	Price Each
TBS-156	5707570	29.44		TBS-190	5702647	58.67

.750 x .200 Non-Preload Right Hand



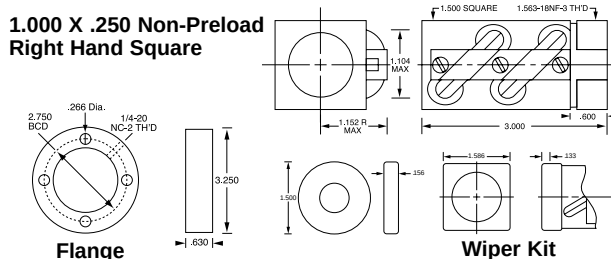
Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-418	7824297	.750	.200	2,082	11,750	178.63
Flange Cat. No.	Thompson Part No.	Price Each		Wiper Kit Cat. No.	Thompson Part No.	Price Each
TBS-159	7823336	36.95		TBS-193	7824337	30.81

.750 x .500 Non-Preload Right Hand



Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-421	7824358	.750	.500	3,263	13,260	184.79
Flange Cat. No.	Thompson Part No.	Price Each		Wiper Kit Cat. No.	Thompson Part No.	Price Each
TBS-159	7823336	36.95		TBS-193	7824337	30.81

1.000 X .250 Non-Preload Right Hand Square

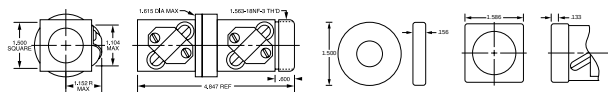
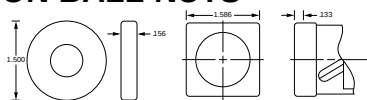


Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-424	5700348	1.000	.250	3,224	27,826	105.28
Flange Cat. No.	Thompson Part No.	Price Each		Wiper Kit Cat. No.	Thompson Part No.	Price Each
TBS-165	5707571	38.20		TBS-199	5702649	30.68



PRECISION BALL NUTS

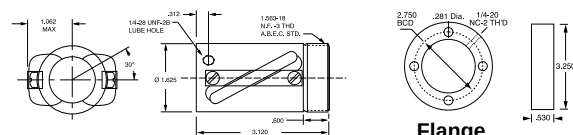
1.000 x .250 Preloaded
Right Hand - Square



Flange

Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-430	5704167	1.000	.250	1,612	13,913	262.90
Flange Cat. No.	Thompson Part No.	Price Each		Wiper Kit Cat. No.	Thompson Part No.	Price Each
TBS-165	5707571	38.20		TBS-199	5702649	30.68

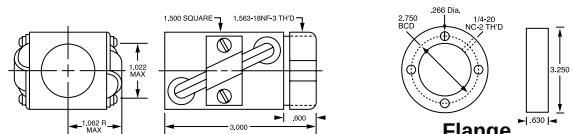
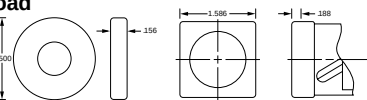
1.000 x .500 Non-Preload
Right Hand



Flange

Ball-Nut Cat No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-433	7824286	1.000	.500	3,890	18,400	209.43
Flange Cat. No.	Thompson Part No.	Price Each		Wiper Kit Cat. No.	Thompson Part No.	Price Each
TBS-168	7824293	43.17		TBS-205	7824292	33.14

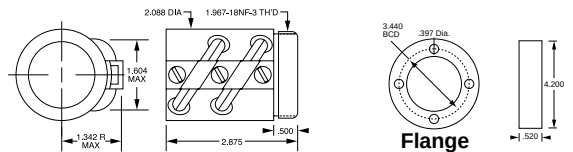
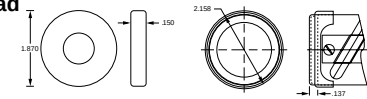
1.000 x 1.000 Non-Preload
Right Hand - Square



Flange

Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-436	5707509	1.000	1.000	2,142	11,925	110.54
Flange Cat. No.	Thompson Part No.	Price Each		WiperKit Cat. No.	Thompson Part No.	Price Each
TBS-165	5707571	38.20		TBS-208	5702650	31.84

1.500 x .250 Non-Preload
Right Hand



Flange

Ball-Nut Cat. No.	Thompson Part No.	Ball Circle Dia.	Lead	Dynamic Load	Static Load	Price Each
TBS-439	5709587	1.500	.250	4,198	44,030	251.93
Flange Cat. No.	Thompson Part No.	Price Each		Wiper Kit Cat. No.	Thompson Part No.	Price Each
TBS-174	5706754	49.28		TBS-211	5702654	45.00



REDI-RAIL™ LINEAR GUIDE SYSTEMS



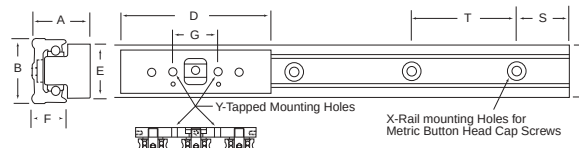
Complete Assembly



Roller Guide



Rail



These easy to use systems can be installed into many applications including packaging, material handling, automation and assembly equipment. They consist of a roller guide and rail. The roller guide is made from a 6061-T6 aluminum base with three rollers. The rollers are made from 52100 hardened steel and are lubricated and sealed. The pre-load is easily adjusted to meet your requirements. The rail is made from 6061-T6 aluminum with hardened and ground steel raceways inserted for the rollers to run on. Guides and rails are sold separately. Metric dimensions are in millimeters. The rails listed below are in stock for same day shipping, however, other lengths up to 19' are available as special order upon request. The metric roller guides have a felt seal to keep contamination clear of rollers.

Roller Guides

Cat. No.	Pacific Part No.	Fits Rail Width B	A	D	E	G	Y	Price Each
Inch								
PBC-605	RRS14	1.32	.938	3.25	1.25	1.250	1/4-28	121.32
PBC-610	RRS18	1.91	1.125	4.50	1.50	1.625	5/16-24	137.34
PBC-615*	RRS24	3.00	1.500	6.00	2.75	1 x 2"	3/16-20	232.09
Metric								
PBC-625	RRS30	30	28	86	25.4	26	M5 x 0.80	104.58
PBC-630	RRS45	45	33	116	38.1	36	M8 x 1.25	129.43
PBC-635	RRS65	65	42	161	50.8	52	M8 x 1.25	184.25

*PBC-615 has four mounting holes which form a 1" x 2" rectangular hole pattern.

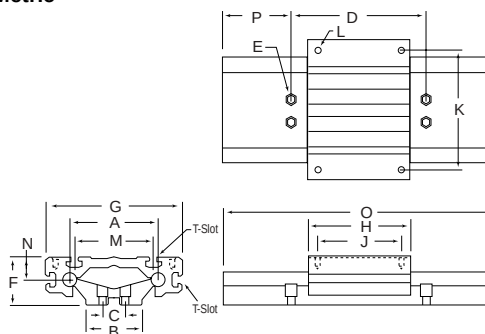
Rails

Cat. No.	Pacific Part No.	Width B	Length	F	S	T	X	# Of Holes	Price Each
Inch									
PBC-650	RR14-12	1.32	12	.56	.75	3.50	#10	4	34.25
PBC-655	RR14-24	1.32	24	.56	.75	4.50	#10	6	58.12
PBC-660	RR14-36	1.32	36	.56	.50	3.50	#10	11	82.18
PBC-665	RR18-12	1.91	12	.75	.75	3.50	3/4	4	39.14
PBC-670	RR18-24	1.91	24	.75	.75	4.50	3/4	6	71.37
PBC-675	RR18-36	1.91	36	.75	.50	3.50	3/4	11	105.68
PBC-680	RR24-12	3.00	12	1.04	.75	3.50	5/16	4	76.32
PBC-685	RR24-24	3.00	24	1.04	.75	4.50	5/16	6	142.52
PBC-690	RR24-36	3.00	36	1.04	.50	3.50	5/16	11	213.69
Metric									
PBC-700	RR30-480	30	480	16.00	30	60	M5	8	55.63
PBC-705	RR30-720	30	720	16.00	30	60	M5	12	75.55
PBC-710	RR30-960	30	960	16.00	30	60	M5	16	94.68
PBC-715	RR45-480	45	480	20.50	30	60	M6	8	77.03
PBC-720	RR45-720	45	720	20.50	30	60	M6	12	103.25
PBC-725	RR45-960	45	960	20.50	30	60	M6	16	128.23
PBC-730	RR65-480	65	480	27.00	40	80	M6	6	169.95
PBC-735	RR65-720	65	720	27.00	40	80	M6	9	232.31
PBC-740	RR65-960	65	960	27.00	40	80	M6	12	292.75



TWO PIECE LINEAR GUIDE SYSTEMS

Inch and Metric



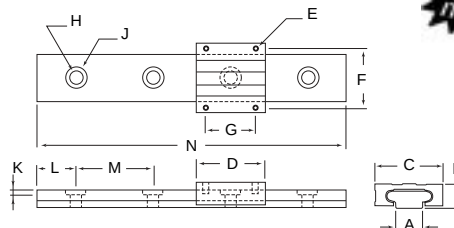
These two piece linear rail systems use Pacific Bearing's FrelonGold® plain bearing technology. The rail and carriage are made from 6063-T6 aluminum. The rails are ceramic coated which resists corrosion and repels weld splatter and contaminants. The guide has slots for T-nuts or bolts. There are only two components to this system so installation is easier than traditional rail systems. Smooth running and dampens vibrations. The guide and the rail are sold together. The rail lengths below are in stock for same day shipment. Other lengths up to 12' are available as special order. Please call for price and delivery.

Cat. No.	Part No.	A	B	C	D	Bolt Size E	F	G	H	J	K	Bolt Size L	M	N	O	P	Static Load Rating Lbs.	Price Each
PBC-750	D75-12	2.95	2.0	.75	4	1/4	1.625	4.6	3.5	3.00	4.00	10-32	2.60	.810	12	2	500	301.60
PBC-755	D75-24	2.95	2.0	.75	4	1/4	1.625	4.6	3.5	3.00	4.00	10-32	2.60	.810	24	2	500	399.69
PBC-760	D100-12	3.94	2.6	1.00	6	5/16	2.125	6.1	4.5	3.75	5.25	1/4-20	3.50	1.024	12	3	750	370.23
PBC-765	D100-24	3.94	2.6	1.00	6	5/16	2.125	6.1	4.5	3.75	5.25	1/4-20	3.50	1.024	24	3	750	487.89
PBC-770	D125-12	4.92	3.3	1.25	6	3/8	2.625	7.6	6.0	5.25	6.75	5/16-18	4.33	1.300	12	4	1,000	548.18
PBC-775	D125-24	4.92	3.3	1.25	6	3/8	2.625	7.6	6.0	5.25	6.75	5/16-18	4.33	1.300	24	4	1,000	704.49



MINI-RAIL™ SYSTEM

Precision and Commercial Series

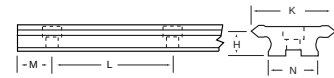
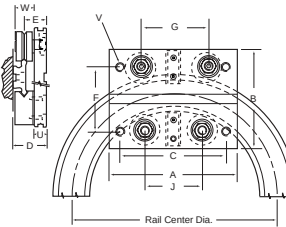


Low profile, self-lubricating linear guide system. Precision series is made from an RC70 ceramic coated rail with self-lubricating FrelonGOLD®. Running clearance is .001". Commercial series is made from a clear anodized rail with FrelonJ™. Running clearance is .0025". Both series have a one-piece carriage design. Dampens vibration and tolerates shock loads. Will not rust. No metal-to-metal contact. No balls or rolling elements to trap contamination, skid or damage the rail. Wipes contamination from the rail. Operation is consistent, smooth and quiet. Maintenance free. Mini-Rails may be used in packaging machines, medical equipment, material handling applications, wash-down and harsh environments, etc. Carriage and rail sold together. Dimensions are in millimeters. Other sizes available as special order. Please call for price and delivery.

Cat. No.	Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	Static Load Rating Lbs.	Price Each
Precision Series																
PBC-1000	MRT12-120	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	120	150	57.46
PBC-1001	MRT12-170	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	170	150	64.76
PBC-1002	MRT12-220	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	220	150	72.96
PBC-1003	MRT12-270	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	270	150	84.82
PBC-1004	MRT12-320	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	320	150	94.84
PBC-1005	MRT12-370	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	370	150	105.80
PBC-1006	MRT12-470	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	470	150	126.76
PBC-1007	MRT20-220	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	220	150	108.52
PBC-1008	MRT20-280	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	280	150	123.12
PBC-1009	MRT20-340	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	340	150	140.44
PBC-1010	MRT20-460	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	460	150	174.20
PBC-1011	MRT20-640	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	640	150	203.62
PBC-1012	MRT20-880	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	880	150	295.48
Commercial Series																
PBC-1013	MRTC12-120	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	120	150	40.22
PBC-1014	MRTC12-170	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	170	150	45.32
PBC-1015	MRTC12-220	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	220	150	51.08
PBC-1016	MRTC12-270	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	270	150	59.38
PBC-1017	MRTC12-320	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	320	150	66.40
PBC-1018	MRTC12-370	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	370	150	74.06
PBC-1019	MRTC12-470	12	13	34	34	M3 (thru)	29	24	3.5	6.0	4.5	10	25	470	150	88.74
PBC-1020	MRTC20-220	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	220	150	75.96
PBC-1021	MRTC20-280	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	280	150	86.18
PBC-1022	MRTC20-340	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	340	150	98.32
PBC-1023	MRTC20-460	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	460	150	121.94
PBC-1024	MRTC20-640	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	640	150	155.14
PBC-1025	MRTC20-880	20	25	46	62	M4x6	38	38	6.0	9.5	8.5	20	60	880	150	206.84



CURVILINEAR TRACK-ROLLER CARRIAGE AND RAILS



Combine linear and circular motion for carriage-routing variations. Excellent for dirty environments. This unique modular system features curved rails, straight rails, and carriages capable of traveling over both. Carriages have a fixed center design and are limited to unidirectional bends of the same radius, so "S" bends and varying radii are not possible. Maximum operating temperature is 248°F. The anodized aluminum alloy carriage is supplied fully assembled and adjusted to suit its corresponding slide or rail. Carriages and rails are sold separately. Carriages only work with the curved rails listed on the same line in the table below. Rail is made of quality high carbon steel. They are zone hardened on the "V" edges, precision ground on the "V" faces, register width, and mounting face. Available in straight, 90° and 180° segments. Ends are ground square to facilitate butting against each other. Dimensions are in millimeters. Adjustment keys are necessary for joining curved and straight rails. Adjustment keys are included with all rails.

Carriage Cat. No.	90° Section Cat. No.	180° Section Cat. No.	Rail Bolt Center Dia.	Dynamic Load Cap.												Price Each		
				A	B	C	D	E	F	G	J	U	V	W	Lbs.	Carriage	90° Section	180° Section
WZ-102	WZ-103	WZ-104	93	55	40	45	17.67	11.5	25	25.56	20.0	6	M4x0.7	10.1	27	321.03	184.17	285.78
WZ-152	WZ-153	WZ-154	127	55	40	45	17.67	11.5	25	23.86	20.0	6	M4x0.7	10.1	27	321.03	199.73	307.57
WZ-202	WZ-203	WZ-204	255	100	80	80	29.00	19.0	50	43.88	36.5	10	M6x1.0	16.6	180	318.58	319.30	510.34
WZ-252	WZ-253	WZ-254	351	105	80	85	29.00	19.0	50	45.67	40.0	10	M6x1.0	16.6	180	320.59	364.56	597.91
WZ-302	WZ-303	WZ-304	468	145	115	120	38.00	25.5	75	75.96	65.0	14	M8x1.25	21.3	360	352.44	481.19	807.65
WZ-352	WZ-353	WZ-354	612	150	115	125	38.00	25.5	75	78.80	70.0	14	M8x1.25	21.3	360	428.38	574.75	994.81

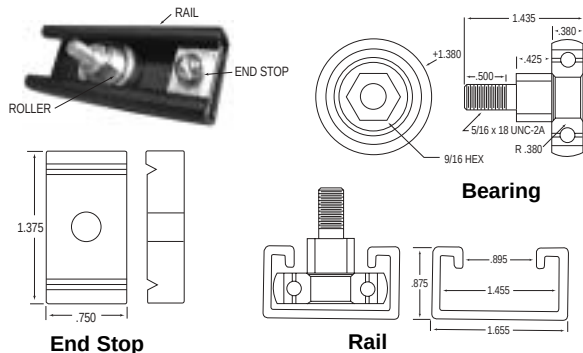
Note: Adjustment keys are necessary for joining curved and straight slides.

Straight Rail										Price Each	
Cat. No.	Use With	Length	H	K	L	M	N				
WZ-100	Any 100 Series	570	6.2	12	45	15	8.5			293.26	
WZ-101	Any 100 Series	1,020	6.2	12	45	15	8.5			510.78	
WZ-200	Any 200 Series	510	10.0	25	90	30	15.0			199.58	
WZ-201	Any 200 Series	1,050	10.0	25	90	30	15.0			410.34	
WZ-300	Any 300 Series	510	12.5	44	90	30	26.0			243.54	
WZ-301	Any 300 Series	1,050	12.5	44	90	30	26.0			469.10	

Replacement Adjustment Key			Price Each	
Cat. No.	Use With			
WZ-105	WZ-100 and WZ-101		12.62	
WZ-205	WZ-200 and WZ-201		6.24	
WZ-305	WZ-300 and WZ-301		7.92	



CROWNED ROLLER TRACK SYSTEM



This easy to use system is usually mounted on a vertical surface as a low cost linear motion solution. The system consists of rollers, rails and end stops. The hardened crown roller provides for self alignment with good strength and long life. The rails are Unistrut type and are black powder coated. The end stops prevent over travel and include a mounting bolt. End stops are not designed to support loads. Maximum bearing load is 300 lbs. Maximum bearing speed is 150 ft/min. Other size rails are available in uncoated finish and in lengths up to 10 feet as special order. Please call for price and delivery.

Cat. No.	Description	Price Each
PBC-202	Crown Roller Bearing	14.75
PBC-204	36" Black Powder Coated Rail	24.87
PBC-206	60" Black Powder Coated Rail	41.45
PBC-208	96" Black Powder Coated Rail	66.33
PBC-210	End Stop	2.31

TURNTABLE "LAZY SUSAN" BEARINGS



Used for turntables and fixtures of all kinds. 5/16" thick. Has a full race of precision ground ball bearings for smooth gliding rotation. Pre-assembled. Bearing is interlocked for life time of unit. Zinc coated steel. 9" and 12" round bearings are available greased.

Cat. No.	Size	Shape	Center Hole Dia.	Nominal Load Capacity (Lbs.)	Use With Turntables Approx. Dia.	Price Each
LS-3	3	Square	1 1/4	200	Up to 18	1.18
LS-4	4	Square	2 5/8	300	12 to 25	1.46
LS-6	6	Square	4 1/16	500	15 to 30	2.41
LS-9	9	Round	4 1/2	750	17 to 35	4.76
LS-9G*	9	Round	4 1/2	750	17 to 35	4.96
LS-12	12	Round	6 9/32	1,000	Over 20	7.00
LS-12G*	12	Round	6 9/32	1,000	Over 20	7.20

*Greased

LINEAR RAIL COVERS

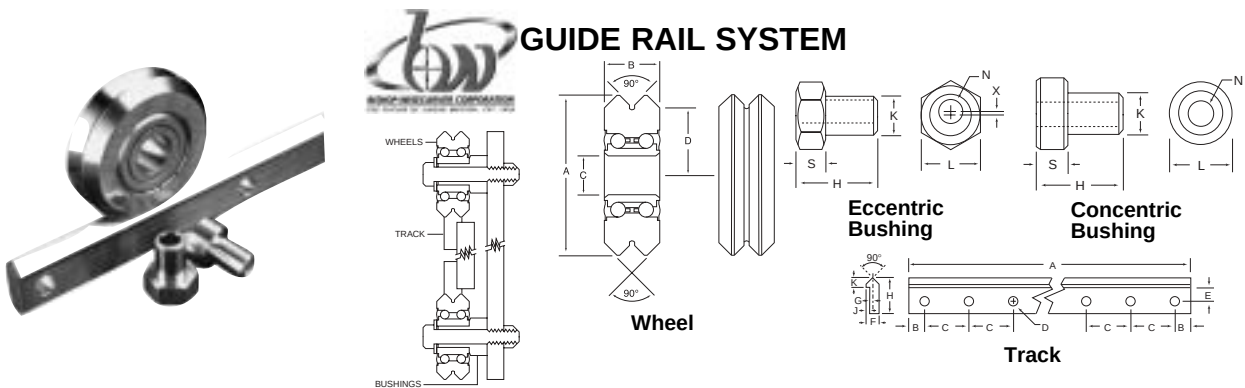


Thermic-Weld™ single piece cover design eliminates seams, stitch holes and glue. High resistant material protects guides from oils, coolants, sparks and fragments. Easy to attach flanges for quick mounting. PVC stiffeners at every fold made of PVC coated nylon fabric 0.010" thick. Temperature range is 5°F to 158°F. Instructions included with each mounting kit. Color is black. Dimensions are in millimeters. Sold by the foot. Due to custom cutting, no returns can be made. Covers are only designed to fit the rail catalog numbers listed to the right.

See page 365 for SKF linear rails.

Cover Cat. No.	Fits Rail Cat. No.	Width	Height	Price Per Foot*	Mounting Kit Cat. No.	Price Each
MPC-15	SKF-151-153	56	30	22.98	MPC-115	20.54
MPC-20	SKF-201-203	61	36	24.94	MPC-120	20.54
MPC-23	SKF-251-254	67	36	27.56	MPC-123	21.18
MPC-28	SKF-301-306	72	43	29.50	MPC-128	21.18
MPC-34	SKF-351-356	76	42	34.00	MPC-134	21.18

*When ordering, use expanded length in feet (compressed length is 1/10 the expanded length).



The guide rail system is an economical method of obtaining precision linear motion for all types of mechanical applications. Ideally suited for applications where contaminants are present. There are no linear seals to wear out. The guide wheels are precision ground, double row angular contact ball bearings, which are prelubricated. The wheels are available either shielded or sealed, the stainless are available with seal only. Steel wheels are AISI 52100 hardened 60-62 Rc. Stainless steel wheels are 440C hardened 58-60 Rc. The track is cold formed from medium carbon or stainless steel, and is hardened and polished on the "V" contact surfaces. The lower portion of the track is left soft to permit drilling for mounting. Steel track is AISI 1045 hardened to 53 Rc, stainless is AISI 420 hardened to 40 Rc. Eccentric bushings are used opposite concentric bushings to provide a simple and effective means of adjusting the free play of the system. The bushings are available in either plated steel or 303 stainless steel. Since the circumference of the wheel is greater at the major diameter than the minor diameter, there is a constant wiping action on the track which gives a self-cleaning effect. All parts are sold separately.

Wheels

Shielded Cat. No.	Steel Sealed Cat. No.	Stainless Steel Cat. No.	Size	A	B	C	D	Static Radial Capacity Lbs.		Price Each		
								Steel	Stainless	Steel Shielded	Steel Sealed	Stainless Sealed
WZ-11	WZ-21	WZ-31	1	.77	.310	.1875	.312	250	224	18.11	24.72	40.82
WZ-12	WZ-22	WZ-32	2	1.21	.437	.3750	.500	600	480	26.85	27.51	45.08
WZ-13	WZ-23	WZ-33	3	1.80	.625	.4724	.750	1,000	805	35.61	36.47	65.14
WZ-14	WZ-24	WZ-34	4	2.36	.750	.5906	1.000	1,560	1,240	45.30	46.40	84.71

Bushings

Eccentric		Concentric		Size	H	K	L	Screw Size	N	X*	S	Price Each			
Steel Cat. No.	Stainless Cat. No.	Steel Cat. No.	Stainless Cat. No.									Eccentric		Concentric	
WZ-41	WZ-51	WZ-91	WZ-95	1	.550	.1873	7/16	#6	.012	.250	.300	3.00	5.30	1.46	2.81
WZ-42	WZ-52	WZ-92	WZ-96	2	.706	.3748	9/16	1/4	.024	.281	.336	6.32	1.65	3.44	
WZ-43	WZ-53	WZ-93	WZ-97	3	.990	.4722	3/4	5/16	.042	.375	4.13	8.47	2.50	4.85	
WZ-44	WZ-54	WZ-94	WZ-98	4	1.177	.5904	7/8	3/8	.060	.437	4.82	11.50	2.86	7.74	

*Mounting information assumes a "central" position for bushing allowing an adjustment from +X to -X, eccentric bushings only.

Track

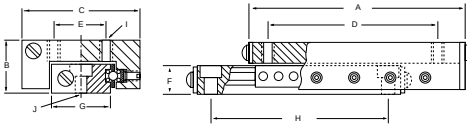
Length tolerance is ± 0.015 " and hole tolerances are ± 0.005 ". Non-drilled or unhardened track is available as special order. Call for price and delivery.

Steel Cat. No.	Stainless Cat. No.	Size	No. Of Holes	A	B	C	D	E	F	G	H	J	K	Price Each	
														Steel	Stainless
WZ-10	WZ-20	1	7	12.50	.25	2	.156	.156	.187	.031	.437	.062	.125	11.44	17.00
WZ-15	WZ-25	1	13	24.50	.25	2	.156	.156	.187	.031	.437	.062	.125	21.46	32.36
WZ-16	WZ-26	1	19	36.50	.25	2	.156	.156	.187	.031	.437	.062	.125	31.45	47.71
WZ-17	WZ-27	1	25	48.50	.25	2	.156	.156	.187	.031	.437	.062	.125	41.17	63.07
WZ-18	WZ-28	1	31	60.50	.25	2	.156	.156	.187	.031	.437	.062	.125	51.20	78.41
WZ-19	WZ-29	1	37	72.50	.25	2	.156	.156	.187	.031	.437	.062	.125	61.23	93.76
WZ-30	WZ-40	2	5	12.63	.31	3	.203	.219	.250	.031	.625	.093	.187	11.55	19.95
WZ-35	WZ-45	2	9	24.63	.31	3	.203	.219	.250	.031	.625	.093	.187	21.53	37.92
WZ-36	WZ-46	2	13	36.63	.31	3	.203	.219	.250	.031	.625	.093	.187	31.52	55.87
WZ-37	WZ-47	2	17	48.63	.31	3	.203	.219	.250	.031	.625	.093	.187	44.61	73.83
WZ-38	WZ-48	2	21	60.63	.31	3	.203	.219	.250	.031	.625	.093	.187	51.48	91.78
WZ-39	WZ-49	2	25	72.63	.31	3	.203	.219	.250	.031	.625	.093	.187	61.47	109.75
WZ-50	WZ-60	3	5	12.75	.38	3	.281	.313	.343	.062	.875	.109	.250	17.10	31.45
WZ-55	WZ-65	3	9	24.75	.38	3	.281	.313	.343	.062	.875	.109	.250	32.86	60.09
WZ-56	WZ-66	3	13	36.75	.38	3	.281	.313	.343	.062	.875	.109	.250	48.62	88.74
WZ-57	WZ-67	3	17	48.75	.38	3	.281	.313	.343	.062	.875	.109	.250	64.38	117.36
WZ-58	WZ-68	3	21	60.75	.38	3	.281	.313	.343	.062	.875	.109	.250	80.13	146.01
WZ-59	WZ-69	3	25	72.75	.38	3	.281	.313	.343	.062	.875	.109	.250	95.90	174.64
WZ-70	WZ-80	4	4	13.00	.50	4	.344	.375	.437	.093	1.062	.125	.312	21.92	44.72
WZ-75	WZ-85	4	7	25.00	.50	4	.344	.375	.437	.093	1.062	.125	.312	41.20	85.05
WZ-76	WZ-86	4	10	37.00	.50	4	.344	.375	.437	.093	1.062	.125	.312	60.45	125.37
WZ-77	WZ-87	4	13	49.00	.50	4	.344	.375	.437	.093	1.062	.125	.312	80.15	165.70
WZ-78	WZ-88	4	16	61.00	.50	4	.344	.375	.437	.093	1.062	.125	.312	99.86	206.05
WZ-79	WZ-89	4	19	73.00	.50	4	.344	.375	.437	.093	1.062	.125	.312	119.56	246.38



LINEAR MOTION

Precision Ball Slide Assemblies



- Factory preload adjustment prevents sideplay and backlash
- Lightweight aluminum carriage and base with high load capacity
- Four tapped and threaded carriage holes and counter bored base holes simplify installation and component mounting (DT-11, 12, and 13 have tapped and threaded base holes) (DT-66 has 6 carriage holes, DT-69 has 8 and DT-612 has 10)
- Long life, self cleaning ball bearing needs no lubrication
- Positional repeatability .0002"
- Clear anodized finish

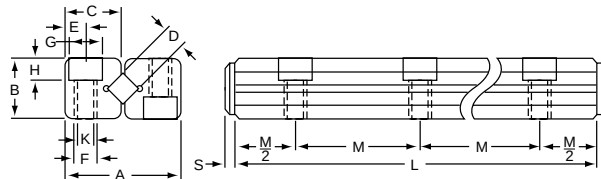
These precision linear ball slides have a typical coefficient of friction of .003 and provide straight line accuracy of .0005" per inch of travel. At load capacity a life of 10 million inches of travel can be expected. The expected life at ½ the rated load is 100 million inches.

Cat. No.	Travel	Load Capacity (Lbs.)	Base Hole Dimensions										Price Each	Cat. No.	Travel	Load Capacity (Lbs.)	Base Dimensions										Price Each	
			Carriage Hole Spacing					Hole Spacing									Carriage Holes					Base Holes						
			A	B	C	D	E	F	G	H	I	J					A	B	C	D	E	F	G	H	I	J		
DT-11*	.50	1.5	.75	.23	.38	.375	.156	.135	.156	.375	2.56	2.56	66.00	DT-48	6.00	35	8.00	.53	1.06	7.500	.437	.312	.500	5.000	6-32	6-32	140.00	
DT-12*	1.00	1.5	1.25	.23	.38	.875	.156	.135	.156	.875	2.56	2.56	72.00	DT-410	6.00	35	10.00	.53	1.06	9.500	.437	.312	.500	5.000	6-32	6-32	148.00	
DT-13*	1.50	1.5	1.75	.23	.38	1.375	.156	.135	.156	1.375	2.56	2.56	83.00	DT-111	1.00	15	2.00	.62	1.50	1.375	.625	.340	.750	1.500	6-32	6-32	84.00	
DT-21	.50	4	1.06	.32	.56	.625	.218	.187	.250	.750	2.56	2.56	59.00	DT-112	2.00	20	3.00	.62	1.50	2.375	.625	.340	.750	2.500	6-32	6-32	89.00	
DT-22	1.00	8	2.06	.32	.56	1.625	.218	.187	.250	1.375	2.56	2.56	69.00	DT-113	3.00	25	4.00	.62	1.50	3.375	.625	.340	.750	3.500	6-32	6-32	96.00	
DT-23	2.00	12	3.06	.32	.56	2.625	.218	.187	.250	2.375	2.56	2.56	79.00	DT-1135	3.50	30	5.00	.62	1.50	4.375	.625	.340	.750	3.500	6-32	6-32	103.00	
DT-24	3.00	14	4.06	.32	.56	3.625	.218	.187	.250	3.375	2.56	2.56	92.00	DT-114	4.00	35	6.00	.62	1.50	5.375	.625	.340	.750	4.000	6-32	6-32	114.00	
DT-25	4.00	16	5.06	.32	.56	4.625	.218	.187	.250	3.500	2.56	2.56	107.00	DT-116	6.00	45	8.00	.62	1.50	7.375	.625	.340	.750	5.000	6-32	6-32	138.00	
DT-26	5.00	18	6.06	.32	.56	5.625	.218	.187	.250	4.500	2.56	2.56	120.00	DT-118	8.00	55	10.00	.62	1.50	9.375	.625	.340	.750	7.000	6-32	6-32	145.00	
DT-31	.50	8	1.06	.41	.75	.625	.375	.250	.375	.750	4.40	4.40	68.00	DT-51	1.00	20	2.00	.75	1.75	1.375	.875	.400	.875	1.625	6-32	6-32	88.00	
DT-32	1.00	10	2.06	.41	.75	1.625	.375	.250	.375	1.375	4.40	4.40	79.00	DT-515	1.50	30	2.75	.75	1.75	2.125	.875	.400	.875	2.250	6-32	6-32	93.00	
DT-33	2.00	12	3.06	.41	.75	2.625	.375	.250	.375	2.375	4.40	4.40	84.00	DT-52	2.00	42	3.25	.75	1.75	2.625	.875	.400	.875	2.750	6-32	6-32	101.00	
DT-34	3.00	14	4.06	.41	.75	3.625	.375	.250	.375	3.375	4.40	4.40	92.00	DT-53	3.00	52	4.00	.75	1.75	3.375	.875	.400	.875	3.500	6-32	6-32	110.00	
DT-35	4.00	16	5.06	.41	.75	4.625	.375	.250	.375	3.500	4.40	4.40	107.00	DT-54	4.00	60	6.00	.75	1.75	5.500	.875	.400	.875	4.000	6-32	6-32	120.00	
DT-36	5.00	18	6.06	.41	.75	5.625	.375	.250	.375	4.500	4.40	4.40	120.00	DT-55	6.00	75	8.00	.75	1.75	7.500	.875	.400	.875	5.000	6-32	6-32	144.00	
DT-101	.50	10	1.56	.50	1.00	1.250	.437	.250	.500	1.250	6-32	6-32	4.40	79.00	DT-56	8.00	90	10.00	.75	1.75	9.500	.875	.400	.875	7.000	6-32	6-32	153.00
DT-102	1.00	12	2.56	.50	1.00	2.250	.437	.250	.500	2.250	6-32	6-32	4.40	85.00	DT-61	1.00	30	2.62	1.00	2.62	1.250	1.250	.625	1.500	2.125	10-32	10-32	93.00
DT-1025	1.50	13	3.06	.50	1.00	2.750	.437	.250	.500	2.750	6-32	6-32	4.40	92.00	DT-615	1.50	35	2.62	1.00	2.62	1.625	1.250	.625	1.500	1.875	10-32	10-32	100.00
DT-103	2.00	15	3.56	.50	1.00	3.250	.437	.250	.500	3.250	6-32	6-32	4.40	98.00	DT-62	2.00	62	4.00	1.00	2.62	3.000	1.250	.625	1.500	3.375	10-32	10-32	113.00
DT-104	3.00	18	4.56	.50	1.00	4.250	.437	.250	.500	4.250	6-32	6-32	4.40	105.00	DT-63	3.00	88	5.00	1.00	2.62	4.000	1.250	.625	1.500	4.375	10-32	10-32	129.00
DT-41	.75	15	1.56	.53	1.06	1.250	.437	.312	.500	1.125	6-32	6-32	79.00	DT-64	4.00	118	6.00	1.00	2.62	5.000	1.250	.625	1.500	5.375	10-32	10-32	144.00	
DT-42	1.50	18	2.56	.53	1.06	2.250	.437	.312	.500	2.125	6-32	6-32	85.00	DT-65	5.00	135	8.00	1.00	2.62	7.000	1.250	.625	1.500	7.375	10-32	10-32	154.00	
DT-43	2.00	20	3.56	.53	1.06	3.250	.437	.312	.500	3.125	6-32	6-32	98.00	DT-66**	6.00	150	9.00	1.00	2.62	3.000	1.250	.625	1.500	7.000	10-32	10-32	186.00	
DT-44	3.00	25	4.56	.53	1.06	4.000	.437	.312	.500	3.250	6-32	6-32	110.00	DT-69**	9.00	185	12.00	1.00	2.62	3.000	1.250	.625	1.500	10.000	10-32	10-32	244.00	
DT-46	4.00	30	6.00	.53	1.06	5.500	.437	.312	.500	4.000	6-32	6-32	132.00	DT-612**	12.00	205	15.00	1.00	2.62	3.000	1.250	.625	1.500	13.000	10-32	10-32	306.00	

*Base holes are tapped and threaded and not counterbored.

***"D" dimension is minimum centered around mean position (DT-66 has 6 carriage holes, DT-69 has 8 and DT-612 has 10).

Crossed Roller Rail Sets



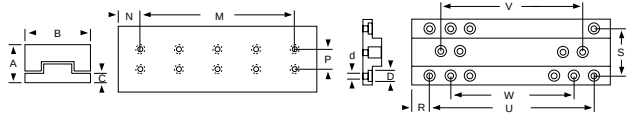
Crossed roller linear rail sets are compact, precision bearings that can support and guide high loads with high accuracy and repeatability, low friction, and low starting force. A complete range of sizes is supplied for use in precision machine tools, measuring instruments and anywhere reciprocating motion with high reliability and long life is required. Each bearing consists of a pair of hardened steel ways containing 90° vee grooves and a row of alternately crossed cylindrical rollers. The hardened steel rollers are captive in a stainless steel cage for easy handling, assembly and permanent alignment. The ways are installed face to face on smooth flat and accurately parallel, coplanar, or perpendicular surfaces. Lubrication required depends on the application ranging from light grease for low speeds less than 50 inches per minute to continuous oil bath or mist at 1,200 inches per minute. Temperature of bearings must not exceed 212° F even for short periods as this will reduce hardness and performance. All are steel. Each set consists of two complete bearings (4 way bars, 2 roller cages, and end stops). Stainless steel and other sizes available as special order. Please call for price and delivery.

Cat. No.	No. Of Rollers	Length L	Travel	Number Holes	Load Lbs.	A	B	C	D	E	F*		G	H	K	M	S	Price Each
											Thread	Cap Screw						
DT-1011	5	1.181	.709	2	66	.473	.236	.217	.079	.0984	M3	#2	.173	.079	.100	.5910	.079	124.00
DT-1012	8	1.772	.945	3	105	.473	.236	.217	.079	.0984	M3	#2	.173	.079	.100	.5910	.079	143.00
DT-1013	11	2.362	1.181	4	145	.473	.236	.217	.079	.0984	M3	#2	.173	.079	.100	.5910	.079	160.00
DT-1015	16	3.544	1.969	6	211	.473	.236	.217	.079	.0984	M3	#2	.173	.079	.100	.5910	.079	183.00
DT-1051	7	3.150	2.283	2	308	.866	.433	.402	.158	.1772	M5	#8	.315	.165	.169	1.5748	.079	160.00
DT-1071	8	3.937	2.165	2	704	1.221	.591	.559	.236	.2360	M6	#10	.374	.205	.205	1.9685	.118	212.00
DT-1072	12	5.906	3.346	3	1,056	1.221	.591	.559	.236	.2360	M6	#10	.374	.205	.205	1.9685	.118	260.00
DT-1074	20	9.843	5.906	5	1,760	1.221	.591	.559	.236	.2360	M6	#10	.374	.205	.205	1.9685	.118	376.00

*Thread size. Hole F clears cap screw for through mounting.

LINEAR MOTION

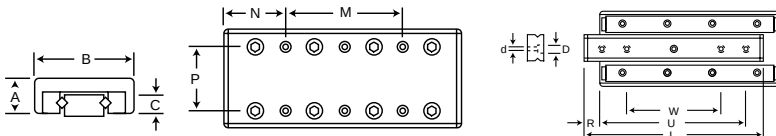
Crossed Roller Slide Tables



Crossed roller slide tables are factory assembled and ready to install. They use crossed roller bearings to provide very precise linear motion with low friction and high support stiffness for the load. A large selection is available for applications including precision instruments, office and communications equipment, surface grinders, tool grinders, assembly fixtures, and anywhere precise linear positioning is required. Precision ground V grooved ways and rollers provide high accuracy and load capacity. Withstands force in any direction from alternately crossed rollers at 45° angle. Standard pattern for easy installation and interchangeability with other manufacturers slides. Straight line accuracy .0001"/inch. Each table consists of a one piece base, a one piece carriage and a pair of linear bearings. Steel type has cold rolled base and carriage with black oxide finish. Ends of carriage contain tapped holes that permit easy attachment of way covers, bellows or other shields to exclude dust and keep the ways clean. Aluminum is available for situations where particulate contamination must be reduced. Aluminum crossed roller slide tables have a gold anodized carriage and black anodized base. Other sizes and stainless steel bearings available as special order. Please call for price and delivery.

Cat. No.	Travel	Load Capacity (Lbs.)	Base Mounting Holes-Spacing and Dimensions (Counterbored)												Carriage Holes-Spacing and Dimensions (Threaded)							Price Each
			Length	A	B	C	No. of Holes	U	W	V	R	S	D	d	No. of Holes	M	N	P	Thread	Depth		
Steel																						
DT-307	1.969	88	3.346	.669	1.181	.217	8	3.071	2.283	—	.138	.866	.161	.100	14	6x.3937	.492	.394	M2	.275	588.00	
DT-309	1.181	137	1.969	.827	1.575	.256	4	1.575	—	—	.197	1.181	.236	.138	4	1x.5906	.689	.591	M3	.315	338.00	
DT-312	2.362	231	3.740	.827	1.575	.256	8	3.346	2.165	—	.197	1.181	.236	.138	10	4x.5906	.689	.591	M3	.315	481.00	
DT-315	3.543	319	5.512	.827	1.575	.256	12	5.118	3.397	—	.197	1.181	.236	.138	16	7x.5906	.689	.591	M3	.315	635.00	
DT-319	1.181	277	2.165	1.102	2.362	.354	4	1.378	—	—	.394	1.575	.295	.177	2	—	1.083	.984	M4	.413	208.00	
DT-320	1.772	405	3.150	1.102	2.362	.354	4	2.362	—	—	.394	1.575	.295	.177	4	1x.9843	1.083	.984	M4	.413	327.00	
DT-321	2.362	484	4.134	1.102	2.362	.354	4	3.345	—	—	.394	1.575	.295	.177	6	2x.9843	1.083	.984	M4	.413	415.00	
DT-330	1.969	616	3.346	1.378	3.150	.413	4	2.559	—	—	.394	2.165	.374	.217	2	—	1.673	1.575	M5	.512	424.00	
DT-331	2.953	858	4.921	1.378	3.150	.413	4	4.134	—	—	.394	2.165	.374	.217	4	1x1.575	1.673	1.575	M5	.512	544.00	
DT-332	4.134	1,034	6.496	1.378	3.150	.413	4	5.709	—	—	.394	2.165	.374	.217	6	2x1.575	1.673	1.575	M5	.512	648.00	
DT-339	5.118	1,914	8.268	1.772	3.937	.512	6	7.480	—	3.543	.394	2.362	.433	.276	6	2x1.969	2.165	1.969	M6	.630	857.00	
Aluminum																						
DT-202	1.5	114	2.559	.590	1.181	.160	4	2.165	—	—	.197	.866	.198	.1250	6	2x.5906	.689	.394	4-40	.177	277.00	
DT-205	3.0	198	4.921	.590	1.181	.160	8	4.528	3.346	—	.197	.866	.198	.1250	14	6x.5906	.689	.394	4-40	.177	341.00	
DT-212	1.5	114	2.559	.827	1.575	.256	4	2.165	—	—	.197	1.181	.241	.1495	6	2x.5906	.689	.591	6-32	.315	247.00	
DT-214	2.5	162	3.740	.827	1.575	.256	8	3.346	2.165	—	.197	1.181	.241	.1495	10	4x.5906	.689	.591	6-32	.315	292.00	
DT-215	3.0	198	4.921	.827	1.575	.256	8	4.528	3.346	—	.197	1.181	.241	.1495	14	6x.5906	.689	.591	6-32	.315	343.00	
DT-221	1.0	193	2.165	1.102	2.362	.354	4	1.378	—	—	.394	1.575	.328	.1970	2	—	1.083	.984	10-32	.413	238.00	
DT-222	2.0	338	4.134	1.102	2.362	.354	4	3.345	—	—	.394	1.575	.328	.1970	6	2x.9843	1.083	.984	10-32	.413	292.00	
DT-224	4.0	545	7.087	1.102	2.362	.354	4	6.299	—	—	.394	1.575	.328	.1970	12	5x.9843	1.083	.984	10-32	.413	397.00	
DT-225	5.0	576	8.071	1.102	2.362	.354	8	7.283	3.346	—	.394	1.575	.328	.1970	14	6x.9843	1.083	.984	10-32	.413	442.00	
DT-231	2.0	430	3.346	1.378	3.150	.413	4	2.557	—	—	.394	2.165	.328	.1970	2	—	1.673	1.575	10-32	.512	305.00	
DT-232	3.0	600	4.921	1.378	3.150	.413	4	4.134	—	—	.394	2.165	.328	.1970	4	1x1.575	1.673	1.575	10-32	.512	374.00	
DT-242	4.0	1,062	6.300	1.772	3.937	.512	4	5.512	—	—	.394	2.362	.406	.2660	4	1x1.969	2.165	1.969	¾-20	.630	499.00	
DT-243	6.0	1,600	10.240	1.772	3.937	.512	4	9.449	—	—	.394	2.362	.406	.2660	8	3x1.969	2.165	1.969	¾-20	.630	660.00	

Low Profile Crossed Roller Slide Tables



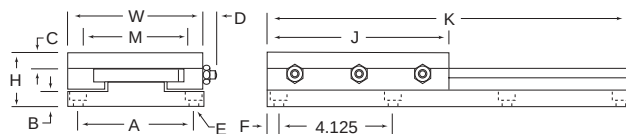
Crossed roller slide tables are factory assembled and ready to install. They use crossed roller bearings to provide very precise linear motion with low friction and high support stiffness for the load. A large selection is available for applications including precision instruments, office and communications equipment, surface grinders, tool grinders, assembly fixtures, and anywhere precise linear positioning is required. Precision ground V grooved ways and rollers provide high accuracy and load capacity. Withstands forces in any direction from alternately crossed rollers at 45° angle. Contain UNC threaded mounting holes in standard pattern for easy installation. Interchangeable with other manufacturers slides. Straight line accuracy .0001"/inch of travel. .0001" position repeatability. All have light weight aluminum carriage. Steel type has hardened steel crossed roller rail set with double V grooved inner rail. Stainless steel type (DT-432 and 445) has stainless steel rollers, cages and fasteners. Other sizes available as special order. Please call for price and delivery.

Cat. No.	Travel	Load Capacity Lbs.	Base Mounting Holes - Spacing and Dimensions (Counterbored)										Carriage Holes - Spacing and Dimensions (Threaded)						Price Each
			Length	A	B	C	No. Holes	U	W	R	D	d	No. Holes	M	N	P	Thread	Depth	
DT-401	.473	50	.984	.315	.788	.158	2	.709	—	.138	.155	.101	4	.709	.138	.551	2-56	.138	189.00
DT-432*	.709	70	1.378	.315	.788	.158	2	.984	—	.197	Counterbored	2-56	4	1x1.102	.138	—	—	—	295.00
DT-408	.709	88	1.378	.472	1.181	.236	2	.984	—	.197	.241	.157	4	1x1.102	.138	.866	6-32	.217	186.00
DT-409	1.181	138	1.969	.472	1.181	.236	2	1.378	—	.295	Counterbored	6-32	4	1x1.693	.138	—	—	—	218.00
DT-411	1.969	209	3.150	.472	1.181	.236	4	2.756	1.575	.197	Counterbored	6-32	4	1x1.772	.689	—	—	—	286.00
DT-412	2.363	231	3.740	.472	1.181	.236	4	3.347	1.772	.197	Counterbored	6-32	6	2x1.181	.689	—	—	—	321.00
DT-415	1.181	277	2.165	.630	1.575	.315	2	1.575	—	.295	.327	.204	4	1x1.575	.295	1.181	10-32	.295	171.00
DT-445*	1.181	277	2.165	.630	1.575	.315	2	1.575	—	.295	.327	.204	4	1x1.575	.295	1.181	10-32	.295	243.00
DT-416	1.772	404	3.150	.630	1.575	.315	4	2.677	1.693	.236	Counterbored	10-32	4	1x2.560	.295	—	—	—	227.00
DT-418	2.953	605	5.118	.630	1.575	.315	4	4.528	2.559	.295	Counterbored	10-32	4	1x2.953	1.083	—	—	—	321.00
DT-419	3.543	682	6.102	.630	1.575	.315	4	5.512	3.740	.295	Counterbored	10-32	6	2x1.969	1.083	—	—	—	374.00
DT-421	5.118	825	8.070	.630	1.575	.315	4	7.480	3.543	.295	Counterbored	10-32	6	2x2.953	1.083	—	—	—	446.00

*Stainless Steel



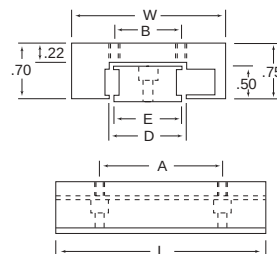
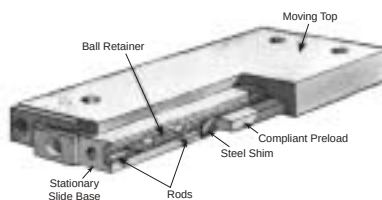
LOW PROFILE HIGH LOAD SLIDES



These low profile, high capacity, square gib slides are ideal for precision machine tool applications. The square gib design offers high load capacity and accuracy and withstands force in any direction. Gib is adjustable. Straight line accuracy is .0001". Bases are fabricated from A2 tool steel and hardened to RC58-62. Saddle, or the sliding portion of the slide, is fabricated from low carbon steel and can be drilled, tapped and milled for mounting purposes. All slides feature Rulon® bearing material for low friction. Because friction at start up and very low speeds is extremely low, stick-slip is virtually non-existent. **Lubrication is not required.** Since Rulon® is practically inert to all acids, bases and solvents, the slides are ideal for contaminated environments. Typical temperature range is -400°F to +550°F. Other sizes and configurations available as special order. Please call for price and delivery.

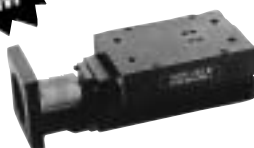
Cat. No.	A	B	C	Gib Adjustment D	Screw Size E	F	H	J	K	M	W	Slide Travel	Number of Holes	Load Capacity In Vertical Plane (Lbs.)	Price Each
KD-105	1.625	.25	.25	.21	#8	.25	.938	3	4	1.38	2	1	6	3,090	522.93
KD-110	1.625	.25	.25	.21	#8	.50	.938	3	8	1.38	2	5	10	3,090	545.55
KD-115	1.625	.25	.25	.21	#8	.75	.938	3	12	1.38	2	9	14	3,090	568.16
KD-116	1.625	.25	.25	.21	#8	.50	.938	6	8	1.38	2	2	10	6,180	611.97
KD-117	1.625	.25	.25	.21	#8	.75	.938	6	12	1.38	2	6	14	6,180	636.00
KD-120	2.563	.31	.31	.27	#10	.50	1.125	4	6	2.31	3	2	6	7,480	633.17
KD-125	2.563	.31	.31	.27	#10	1.00	1.125	4	12	2.31	3	8	10	7,480	657.20
KD-130	2.563	.31	.31	.27	#10	.25	1.125	4	18	2.31	3	14	16	7,480	681.23
KD-131	2.563	.31	.31	.27	#10	1.00	1.125	6	12	2.31	3	6	10	11,220	725.04
KD-132	2.563	.31	.31	.27	#10	.25	1.125	6	18	2.31	3	12	16	11,220	749.07
KD-135	3.500	.38	.38	.27	1/4	.50	1.375	6	12	3.19	4	6	10	15,960	746.24
KD-140	3.500	.38	.38	.27	1/4	1.12	1.375	6	16	3.19	4	10	12	15,960	770.27
KD-145	3.500	.38	.38	.27	1/4	.38	1.375	6	20	3.19	4	14	16	15,960	794.29
KD-146	3.500	.38	.38	.27	1/4	1.12	1.375	8	16	3.19	4	8	12	21,280	838.11
KD-147	3.500	.38	.38	.27	1/4	.38	1.375	8	20	3.19	4	12	16	21,280	862.13
KD-150	5.344	.47	.47	.30	5/16	.12	1.875	9	12	5.00	6	3	8	37,980	1,163.17
KD-155	5.344	.47	.47	.30	5/16	1.50	1.875	9	16	5.00	6	7	10	37,980	1,198.51
KD-160	5.344	.47	.47	.30	5/16	1.88	1.875	9	20	5.00	6	11	12	37,980	1,233.84
KD-161	5.344	.47	.47	.30	5/16	1.50	1.875	12	16	5.00	6	4	10	50,640	1,300.27
KD-162	5.344	.47	.47	.30	5/16	1.88	1.875	12	20	5.00	6	8	12	50,640	1,335.60

PRE-LOADED BALL SLIDES

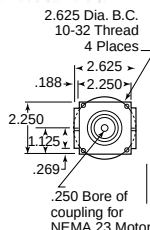


These pre-loaded ball slides provide an acceptable level of accuracy for most linear motion applications (.001"/inch) at a considerably lower cost than more expensive ball slides or crossed roller slides. The compliant slides use a conventional hardened steel rod raceway and balls, but also incorporate an elastomer spine and shock-absorbing back-up gib. This unique combination provides even and continuous preload, while minimizing the effects of impact and shock. This slide can also tolerate contamination and operate over many million cycles without lubrication. Available with either a compliant preload or a hard gib preload. 8-32 thread mounting holes.

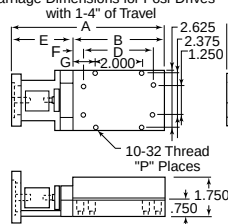
Compliant Cat. No.	Hard Gib Cat. No.	Travel	W	L	A	B	D	E	Preload (Lbs.)	Price Each	
										Compliant	Hard Gib
BZ-10	BZ-2	1	2	2	1	1	1.1	1	20	64.20	74.90
BZ-11	BZ-3	2	2	3	2	1	1.1	1	30	67.41	84.53
BZ-12	BZ-4	3	2	4	3	1	1.1	1	40	70.62	94.16
BZ-13	BZ-5	2	3	4	3	2	2.1	2	30	78.11	100.58
BZ-14	BZ-6	3	3	5	4	2	2.1	2	40	83.46	111.28
BZ-15	BZ-7	4	3	6	5	2	2.1	2	50	89.88	124.12
BZ-16	BZ-8	5	3	7	6	2	2.1	2	60	98.44	134.82
BZ-17	BZ-9	6	3	8	7	2	2.1	2	70	117.70	145.52



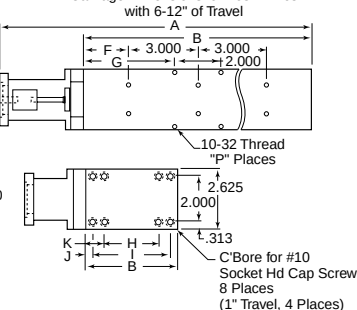
DeTrol POSI-DRIVE STAGES



Carriage Dimensions for Posi-Drives with 1-4" of Travel



Carriage Dimensions for Posi-Drives with 6-12" of Travel



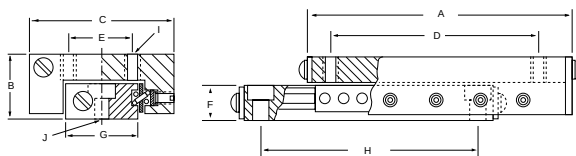
Compact economical "Posi-Drive" stages take the work out of designing motion control systems. These stages require no alignment of components, install with only four standard fasteners, are fitted with anti-backlash lead screws, multi-beam couplings, with high speed misalignment capability and NEMA motor mounts. F.O.B. Bethel, CT. XY and XYZ configurations available as special orders. Please call for price and delivery.

- Drive: 3/8" diameter 0.10 lead screw with backlash nut
- Coupling: Flexible zero backlash coupling
- Motor Mount: Accepts NEMA 23 motor
- Accuracy: Straight line up to .0001" per inch of travel
- Repeatability: .0001"

Cat. No.	Travel	Load Capacity	A	B	D	E	F	G	H	I	J	K	L	P	Price Each
Ball Slide Type															
DT-10	1	30	5.63	3	2.125	2.63	.44	.50	2.375	—	—	.31	.188	8	742.00
DT-20	2	35	6.63	4	3.000	2.63	.50	1.00	2.375	3.375	.31	.82	.688	8	799.00
DT-30	3	40	7.63	5	4.000	2.63	.50	1.50	2.375	4.375	.31	1.31	1.188	8	857.00
DT-40	4	45	8.63	6	5.000	2.63	.50	2.00	2.375	5.375	.31	1.81	1.688	8	914.00
DT-60	6	55	12.63	9	6.000	3.63	1.50	3.50	4.000	7.000	1.00	2.50	3.188	8	972.00
DT-80	8	60	15.63	11	—	4.63	1.00	4.50	6.000	9.000	1.00	2.50	4.188	12	1,035.00
DT-100	10	75	18.63	13	—	5.63	.50	5.50	8.000	11.000	1.00	2.50	5.188	14	1,250.00
DT-120B	12	90	21.63	15	—	6.63	1.50	6.50	10.000	13.000	1.00	2.50	6.188	14	1,375.00
Crossed Roller Type															
DT-10R	1	60	5.63	3	2.125	2.63	.44	.50	2.375	—	—	.31	.188	8	880.00
DT-20R	2	70	6.63	4	3.000	2.63	.50	1.00	2.375	3.375	.31	.82	.688	8	949.00
DT-30R	3	80	7.63	5	4.000	2.63	.50	1.50	2.375	4.375	.31	1.31	1.188	8	1,018.00
DT-40R	4	90	8.63	6	5.000	2.63	.50	2.00	2.375	5.375	.31	1.81	1.688	8	1,087.00
DT-60R	6	110	12.63	9	6.000	3.63	1.50	3.50	4.000	7.000	1.00	2.50	3.188	8	1,156.00
DT-80R	8	120	15.63	11	—	4.63	1.00	4.50	6.000	9.000	1.00	2.50	4.188	12	1,226.00
DT-100R	10	150	18.63	13	—	5.63	.50	5.50	8.000	11.000	1.00	2.50	5.188	14	1,350.00
DT-120R	12	180	21.63	15	—	6.63	1.50	6.50	10.000	13.000	1.00	2.50	6.188	14	1,485.00



CROSS ROLLER SLIDE ASSEMBLIES



- Positive stops prevent overtravel
- Rollers improve load capacity 8-10 times that of balls
- Alternately crossed rollers handle force in any direction
- Lightweight aluminum carriage and base
- Interchangeable with many types of ball slides
- Four tapped and threaded carriage holes and two counter bored base holes simplify installation and component mounting

For higher load carrying capacity than precision ball slide assemblies and when operating at high cycling rates or with shock and overhanging loads, cross roller slides are used for improved performance. Cross roller slides provide accuracy of .0001"/inch of travel, repeatability .0001" exceeding precision ball slides. Cross roller slides are not as naturally cleaning as ball slides. In operating environments with little or no protection against dust and when heavy loads are not a consideration, consider ball slides.

Cat. No.	Travel	Load Capacity (Lbs.)	A	B	C	Carriage Hole Spacing		Base Dimension Hole Spacing			Base and Carriage Holes I and J	Price Each
						D	E	F	G	H		
DT-71	.50	30	1.06	.32	.56	.625	.218	.187	.250	.750	2-56	112.00
DT-72	1.00	55	2.06	.32	.56	1.625	.218	.187	.250	1.375	2-56	128.00
DT-73	2.00	66	3.06	.32	.56	2.625	.218	.187	.250	2.375	2-56	153.00
DT-81	.50	48	1.06	.40	.75	.625	.375	.250	.375	.750	4-40	128.00
DT-82	1.00	78	2.06	.40	.75	1.625	.375	.250	.375	1.375	4-40	153.00
DT-83	2.00	94	3.06	.40	.75	2.625	.375	.250	.375	2.375	4-40	166.00
DT-92	1.50	132	2.56	.53	1.06	2.250	.437	.312	.500	2.125	6-32	166.00
DT-93	2.00	220	3.56	.53	1.06	3.250	.437	.312	.500	3.125	6-32	191.00
DT-94	3.00	264	4.56	.53	1.06	4.000	.437	.312	.500	3.250	6-32	216.00
DT-121	1.00	132	2.00	.62	1.50	1.375	.625	.340	.750	1.500	6-32	167.00
DT-122	2.00	176	3.00	.62	1.50	2.375	.625	.340	.750	2.500	6-32	174.00
DT-123	3.00	176	4.00	.62	1.50	3.375	.625	.340	.750	3.500	6-32	193.00
DT-124	4.00	308	6.00	.62	1.50	5.375	.625	.340	.750	4.000	6-32	226.00
DT-131	1.00	132	2.00	.75	1.75	1.375	.875	.400	.875	1.625	6-32	187.00
DT-132	2.00	176	3.25	.75	1.75	2.625	.875	.400	.875	2.750	6-32	213.00
DT-133	3.00	176	4.00	.75	1.75	3.375	.875	.400	.875	3.500	6-32	226.00
DT-141	1.50	264	2.62	1.00	2.62	1.625	1.250	.625	1.500	1.875	10-32	212.00
DT-142	2.00	352	4.00	1.00	2.62	3.000	1.250	.625	1.500	3.375	10-32	225.00
DT-143	3.00	440	5.00	1.00	2.62	4.000	1.250	.625	1.500	4.375	10-32	238.00
DT-144	4.00	440	6.00	1.00	2.62	5.000	1.250	.625	1.500	5.375	10-32	264.00
DT-146*	6.00	704	9.00	1.00	2.62	3.000	1.250	.625	1.500	7.000	10-32	296.00

*Has 6 carriage holes. "D" dimension is minimum centered around mean position.

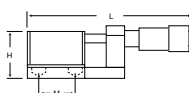
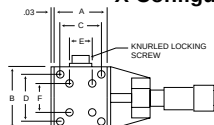


BALL SLIDE AND CROSSED ROLLER POSITIONING STAGES

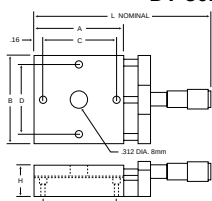
Micrometer Driven



X Configuration



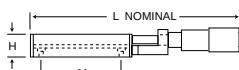
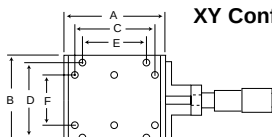
DT-501



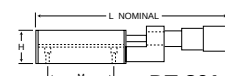
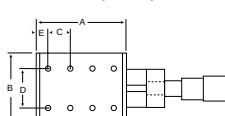
DT-701



XY Configuration



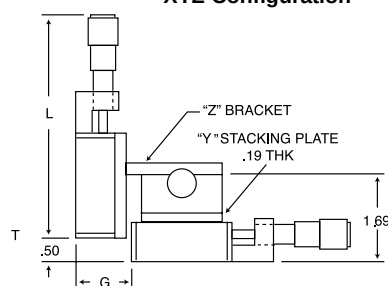
DT-601, 651, 604



DT-801, 901, 951



XYZ Configuration



DT-803

Positioning Stages – used for gaging and positioning light and medium loads. Applications include measuring instruments and optical assemblies. Spring loaded micrometer drives allow precise repeatable adjustments with low friction and zero backlash. Slides provide repeatability of .0001". Ball slides provide accuracy to .0005"/inch of travel, crossed roller slides .0001"/inch of travel. Positioning slides can be stacked for multi axis applications. Preloaded positioning slides fully assembled and arrive ready to use. Black anodized finish. Other sizes and configurations available as special orders. Call for price and delivery.

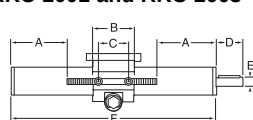
Ball Slide Cat. No.	Crossed Roller Cat. No.	Travel	Config.	A	B	C	D	E	F	G	M	C'Bore	Carriage No. Holes	Base No. Holes	L	H	Load Capacity Lbs.				Price Each	
																	Ball Slide		Crossed Roller		Ball Slide	Crossed Roller
																	X, XY	Z	X, XY	Z		
DT-501	—	.25	X	.75	.75	.562	.531	.312	.312	—	.531	2-56	8	4	2.28	.53	5	1.25	—	—	190.00	—
DT-601	DT-651	.50	X	1.25	1.25	1.000	1.000	.690	.500	—	1.000	2-56	10	4	3.25	.38	4	1.25	23	1.25	165.00	220.00
DT-604	—	.50	X	1.75	1.75	1.500	1.500	1.190	1.000	—	1.500	2-56	10	4	3.75	.38	4	1.25	—	—	165.00	—
DT-605	—	.50	XY	1.75	1.75	1.500	1.500	1.190	1.000	—	1.500	2-56	10	4	3.75	.38	4	1.25	—	—	330.00	—
DT-701	—	.50	X	1.50	1.50	1.187	1.187	—	—	—	1.187	#4-M3	4	2	3.50	.62	12	2.00	—	—	182.00	—
DT-801	—	.50	X	2.00	1.75	.500	.875	.250	—	—	1.620	6-32-M4	8	2	4.62	.75	20	20.00	—	—	179.00	—
DT-802	—	.50	XY	2.00	1.75	.500	.875	.250	—	—	1.620	6-32-M4	8	2	4.62	.75	20	20.00	—	—	376.00	—
DT-803	—	.50	XYZ	2.00	1.75	.500	.875	.250	—	1.12	1.620	6-32-M4	8	2	4.62	.75	20	20.00	—	—	584.00	—
DT-901	DT-951	.50	X	3.25	1.75	.550	.875	.250	—	—	2.750	6-32-M4	12	2	5.86	.75	42	20.00	80	20.00	187.00	251.00
DT-902	—	.50	XY	3.25	1.75	.550	.875	.250	—	—	2.750	6-32-M4	12	2	5.86	.75	42	20.00	—	—	406.00	—



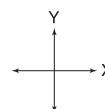
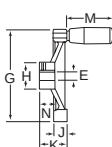
RKC-2000 and RKC-2002



RKC-2001 and RKC-2003



LINEAR POSITIONER UNITS



Effective way to position heavy loads in a particular location quickly and easily. Single pin unit offers high rigidity with small deflection. Uses an acme right-hand threaded lead screw spindle with an attached drive nut to convert rotating input motion into linear motion. Positioning accuracy is +/- .2mm per 300 mm of travel. Can be readjusted quickly with

two-spoke handwheel with revolving handle (included). Work positioner is self-locking. Tube body is precision centerless ground steel with zinc plating. Positioner mounts are cast aluminum. Handwheel is die-cast aluminum with plastic coating. Handwheel held in place by keyway lock. Hub is machined aluminum. Quick release handle included with each unit. Dimensions are in millimeters.

Note: Handwheel is unable to be removed from spindle after being installed.

Cat. No.	Tube Dia.	A	B	C	D	E	F	Travel	Load Capacity (Nm)*		G	H	J	K	M	N	Price Each
									X	Y							
RKC-2000	40	85	60	44	38	12	500	270	950	1000	100	28	14	30	52	17	386.62
RKC-2001	40	85	60	44	38	12	500	270	950	1000	100	28	14	30	52	17	408.15
RKC-2002	50	85	63	44	38	12	500	267	1500	1500	100	28	14	30	52	17	429.69
RKC-2003	50	85	63	44	38	12	500	267	1500	1500	100	28	14	30	52	17	462.00

*Load capacity is based on ends being supported and positioner being stationary.

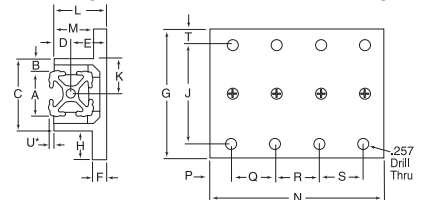
80/20 Inc. LINEAR MOTION SLIDES - SERIES 10

Cost effective alternative to traditional linear slide bearings. Designed to mate and glide on T-slotted aluminum extrusions. Made of 6105-T5 aluminum with bearing pads made of UHMW-PE self lubricated plastic with a low coefficient of friction. Slides are used as drawer glides, door guides, table fences, digital length measuring systems, optical sensing mounts and work station height adjustments.

Double Flange Linear Bearing - 1.00" Width

Used with AES-1010, 1020 and 1030 on page 380.

AES-6725



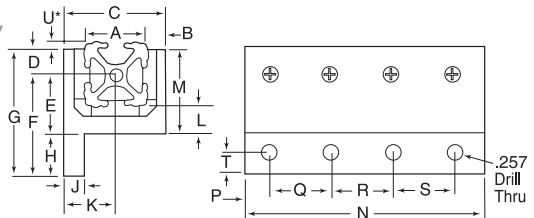
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U*	Price Each
AES-6725	1.00	.312	1.625	.406	.812	.312	2.937	.656	2.250	.812	1.218	.906	1.875	.438	1.00	—	—	.343	.094	37.42
AES-6726	1.00	.312	1.625	.406	.812	.312	2.937	.656	2.250	.812	1.218	.906	4.000	.500	1.00	1.00	1.00	.343	.094	49.43

*Add 1.00" to AES-1020 or 2.00" when using AES-1030.

Single Flange Linear Bearings - 1.00" Width

Used with AES-1010, 1020 and 1030 on page 380.

AES-6715



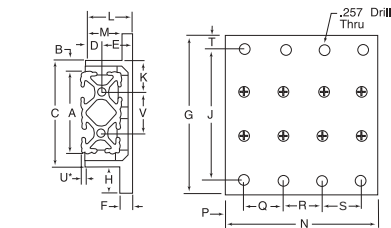
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U*	Price Each
AES-6715	1.00	.312	1.625	.406	.903	1.562	1.968	.656	.312	.813	.406	1.312	1.875	.438	1.00	—	—	.343	.094	35.00
AES-6716	1.00	.312	1.625	.406	.903	1.562	1.968	.656	.312	.813	.406	1.312	4.000	.500	1.00	1.00	1.00	.343	.094	46.20

*Add 1.00" to AES-1020 or 2.00" when using AES-1030.

Double Flange Linear Bearing - 2.00" Width

Used with AES-1020, 2020 and 2040 on page 380.

AES-6723



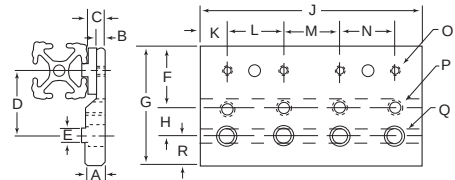
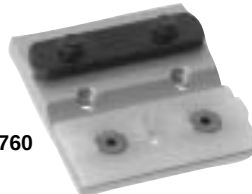
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U*	V	Price Each
AES-6723	2.00	.312	2.63	.406	.812	.312	3.937	.656	3.250	.812	1.218	.906	1.875	.437	1.00	—	—	.343	.094	1.00	52.77
AES-6724	2.00	.312	2.63	.406	.812	.312	3.937	.656	3.250	.812	1.218	.906	4.000	.500	1.00	1.00	1.00	.343	.094	1.00	70.54

*Add 1.00" to AES-2020 or 2.00" when using AES-2040.

Single UniBearing™

Used with AES-1010, 1020, 1030, 2020 and 2040 on page 380.

AES-6760



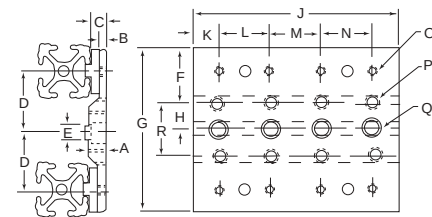
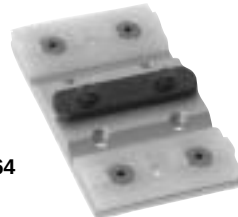
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	R	Price Each
AES-6760	.312	.152	.302	1.165	.250	1.062	2.062	.500	1.875	.437	1.00	—	—	.500	13.46
AES-6762	.312	.152	.302	1.165	.250	1.062	2.062	.500	4.000	.500	1.00	1.00	1.00	.500	17.23

Note: Typical machining: O = drill & tap for #8-32, P = drill & tap thru 1/4-20 (accessory mount), Q = drill & counterbore for 1/4 -20 SHCS (mounting hardware included)

Double UniBearing™

Used with AES-1010, 1020, 1030, 2020 and 2040 on page 380.

AES-6764



Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	R	Price Each
AES-6764	.312	.152	.302	1.165	.250	1.062	3.125	.500	1.875	.437	1.00	—	—	1.00	17.23
AES-6766	.312	.152	.302	1.165	.250	1.062	3.125	.500	4.000	.500	1.00	1.00	1.00	1.00	25.85

Note: Typical machining: O = drill & tap for #8-32, P = drill & tap thru 1/4-20 (accessory mount), Q = drill & counterbore for 1/4 -20 SHCS (mounting hardware included)

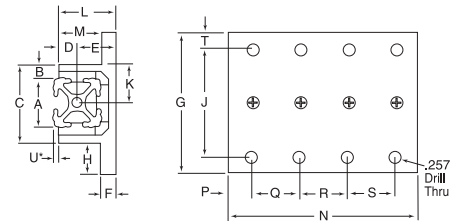
80/20 Inc. LINEAR MOTION SLIDES - SERIES 15

Cost effective alternative to traditional linear slide bearings. Designed to mate and glide on T-slotted aluminum extrusion. Made of 6105-T5 aluminum with bearing pads made of UHMW-PE, self lubricated plastic with a low coefficient of friction. Applications of slides are used as drawer glides, door guides, table fences, digital length measuring systems, optical sensing mounts and work station height adjustments.

Double Flange Linear Bearings - 1.50" Width

Used with AES-1515, 1515-Lite, 1530, 1530-Lite and 1545 on **page 380**.

AES-6825



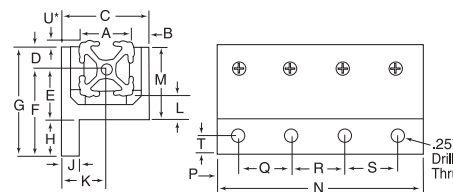
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U*	Price Each
AES-6825	1.500	.500	2.50	.640	1.235	.375	4.00	.750	3.250	1.25	1.875	1.50	2.812	.656	1.50	1.50	1.50	.375	.125	48.19
AES-6826	1.500	.500	2.50	.640	1.235	.375	4.00	.750	3.250	1.25	1.875	1.50	6.000	.750	1.50	1.50	1.50	.375	.125	59.10

*Add 1.5" when using AES-1530 and 1530-Lite extrusion or 3.00" when using AES-1545.

Single Flange Linear Bearings - 1.50" Width

Used with AES-1515, 1515-Lite, 1530, 1530-Lite and 1545 on **page 380**.

AES-6815



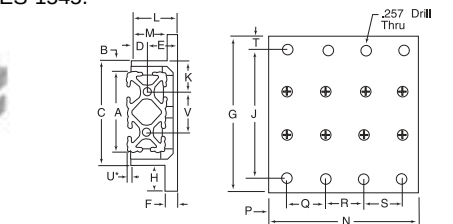
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U*	Price Each
AES-6815	1.500	.500	2.50	.625	1.375	2.125	2.75	.750	.500	1.25	.625	2.00	2.812	.656	1.50	1.50	1.50	.375	.125	45.77
AES-6816	1.500	.500	2.50	.625	1.375	2.125	2.75	.750	.500	1.25	.625	2.00	6.000	.750	1.50	1.50	1.50	.375	.125	48.19

*Add 1.5" when using AES-1530 and 1530-Lite extrusion or 3.00" when using AES-1545.

Double Flange Linear Bearings - 3.00" Width

Used with AES-1530, 1530-Lite and 3030 on **page 380**.

AES-6823



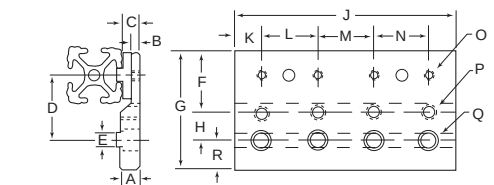
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U*	V	Price Each
AES-6823	3.00	.500	4.00	.640	1.235	.375	5.50	.750	4.75	1.25	1.875	1.500	2.812	.656	1.50	1.50	1.50	.375	.125	1.50	54.92
AES-6824	3.00	.500	4.00	.640	1.235	.375	5.50	.750	4.75	1.25	1.875	1.500	6.000	.750	1.50	1.50	1.50	.375	.125	1.50	72.69

*Add 1.5" when using AES-3030 extrusion.

Single UniBearing™

Used with AES-1515 and 1515-Lite on **page 380**.

AES-6860



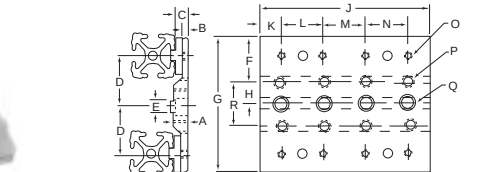
Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	R	Price Each
AES-6860	.500	.240	.480	1.76	.310	1.625	3.125	.750	2.812	.656	1.50	1.50	1.50	.750	15.08
AES-6862	.500	.240	.480	1.76	.310	1.625	3.125	.750	6.000	.750	1.50	1.50	1.50	.750	18.85

NOTE: Typical machining: O = drill and tap for #10-32; P = drill and tap thru 5/16-18 (accessory mount); Q = drill and counterbore for 5/16-18 SHCS (mounting hardware included).

Double UniBearing™

Used with AES-1515 and 1515-Lite on **page 380**.

AES-6864



Cat. No.	A	B	C	D	E	F	G	H	J	K	L	M	N	R	Price Each
AES-6864	.500	.240	.480	1.76	.310	1.625	4.75	.75	2.812	.656	1.50	1.50	1.50	1.50	18.85
AES-6866	.500	.240	.480	1.76	.310	1.625	4.75	.75	6.000	.750	1.50	1.50	1.50	1.50	28.00

Note: Typical machining: O = drill and tap for #10-32; P = drill and tap thru 5/16-18 (accessory mount); Q = drill and counterbore for 5/16-18 SHCS (mounting hardware included).