


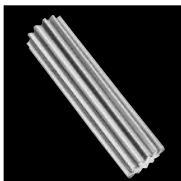
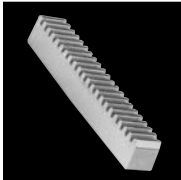






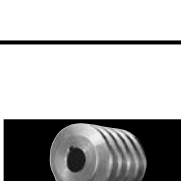





























# Gear Selection



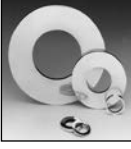
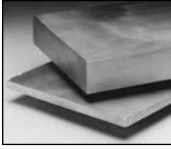



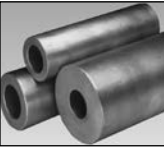














Stock Gears		Description	Application	Pressure Angle (PA)	Material		
Spur Gears		Pinions and Gears	Parallel Shafts	14-1/2° 20° 14-1/2° 20°	Brass Brass Steel Delrin		
		Pinions and Gears	Parallel Shafts	14-1/2° 14-1/2° 20°	Non-Metallic Steel, Iron Steel, Iron		
		Change Gears	Parallel Shafts	14-1/2°	Steel, Iron		
		Stem Pinions	Parallel Shafts	14-1/2°	Steel		
		Drawn Pinion Wire	Parallel Shafts	Brass 14-1/2°	Steel		
		Rack	Use with Spur Gears	14-1/2° 14-1/2° 20°	Nylon Steel Steel		
		Internal Gears	Parallel Shafts	14-1/2° 20°	Brass Brass		
Helical Gears		Helical Gears	Parallel and 90° Non-Intersecting Shafts	14-1/2°	Steel Bronze		
		Straight Miter Gears	90° Intersecting Shafts	20°	Nylon Brass Steel Iron		
Miter and Bevel Gears		Spiral Miter Gears	90° Intersecting Shafts	20°	Steel		
		Straight Bevel Gears	90° Intersecting Shafts	20°	Brass Steel Iron		
		Spiral Bevel Gears	90° Intersecting Shafts	20°	Steel		
	Worms and Worm Gears		Worms/ Worm Gears	90° Non-Intersecting Shafts	(PA) 14-1/2°	Thread Single	Worm Acetal Nylon
		Worms/ Worm Gears	90° Non-Intersecting Shafts	14-1/2° 20° 25°	Single Double Quad	Steel	Bronze
		Worms/ Worm Gears	90° Non-Intersecting Shafts	14-1/2° 20° 25°	Single Double Quad	Steel	Iron

# Reference Guide





















Diametrical Pitch	Pitch Diameter	Face Width		Gear Catalog Reference Pages		
				Selection Procedure	Horsepower and Torque Ratings	Catalog Number Selection
48DP - 16DP 64DP - 24DP 32DP - 24DP 48DP - 24DP	.208" - 5.000" .250" - 6.000" .500" - 6.000" .375" - 2.500"	.062" - .313" .125" - .250" .187" - .250" .125" - .250"		49 49 49 49	50 - 52 - 50 -	18 - 21 37 - 42 19 - 20 37 - 42
16DP - 8DP 20DP - 3DP 20DP - 5DP	1.000" - 3.500" .750" - 36.000" .600" - 36.000"	.500" - 1.250" .500" - 3.000" .500" - 2.500"		49 49 49	52 - 55 51 - 57 58 - 62	22 - 24 20 - 27 42 - 46
20DP - 8DP	1.000" - 12.500"	.375" - 1.250"		49	51 - 55	28 - 32
20DP - 6DP	.287" - 1.750"	1.125" - 3.000"		49	51 - 56	33
48DP - 24DP 48DP - 24DP	.125" - .667" .125" - .667"	48" Lengths 48" Lengths		49 49	50 50	34 34
48DP - 24DP 48DP - 3DP 20DP - 4DP	.104" - .208" .104" - 1.167" .450" - 1.750"	.125" - .250" .125" - 3.000" .500" - 3.500"		49 49 49	50 50 - 57 58 - 62	35 35 47
48DP - 16DP 64DP - 24DP	1.000" - 6.000" 1.000" - 6.000"	.125" - .312" .125" - .250"		49 49	50 -	36 48
24TDP - 6TDP 8TDP - 6TDP	.333" - 6.000" 1.000" - 6.000"	.250" - 1.250" .750" - 1.250"		66 66	67 - 68 68	64 - 65 65
48DP - 16DP 48DP - 24DP 48DP - 4DP 8DP - 4DP	.312" - 2.000" .312" - 1.500" .375" - 7.000" 3.500" - 8.000"	.070" - .390" .080" - .230" .080" - 1.430" .750" - 1.333"		79 79 79 79	80 80 80 - 81 80 - 81	70 - 71 70 70 - 72 72
18DP - 5DP	1.000" - 5.000"	.220" - 1.150"		79	83	73
48DP - 24DP 20DP - 6DP 16DP - 4DP	.250" - 2.000" .500" - 6.000" 1.000" - 9.000"	.090" - .260" .180" - 1.070" .420" - 1.400"		79 79 79	82 82 82	74 74 - 77 75 - 77
30DP - 8DP	.430" - 4.250"	.140" - .710"		79	83	78
48DP - 32DP 24DP 48DP - 24DP	<b>Worm</b> .333" to 1.500"	<b>Gear</b> .417" to 4.167"	<b>Worm</b> .562" to .812"	<b>Gear</b> .156" to .219"	96	- 86 - 88
48DP - 4DP	.333" to 3.000"	.417" to 6.000"	.562" to 5.250"	.156" to 1.500"	96	97 - 98 86 - 94
16DP - 3DP	.625" to 4.000"	1.250" to 18.000"	1.000" to 5.250"	.312" to 2.000"	96	97 - 98 89 - 95

Tooth Gauge	
20° P.A.	14 1/2° P.A.
 64 D.P.	
 48 D.P.	 48 D.P.
 32 D.P.	 32 D.P.
 24 D.P.	 24 D.P.
 20 D.P.	 20 D.P.
 16 D.P.	 16 D.P.
 12 D.P.	 12 D.P.
 10 D.P.	 10 D.P.
 8 D.P.	 8 D.P.
 6 D.P.	 6 D.P.
 5 D.P.	 5 D.P.
 4 D.P.	 4 D.P.
<b>Tooth Gauge Chart is for Reference Purposes Only.</b>	 3 D.P.










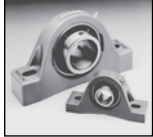

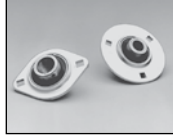



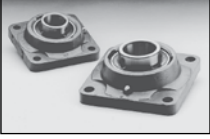


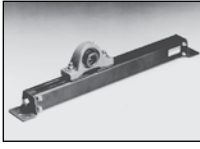




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<b>BOST-BRONZ® OIL IMPREGNATED SINTERED BRONZE</b>	<b>PLAIN CYLINDRICAL</b>  Pages 138–140	<b>FLANGED TYPE</b>  Pages 141–142	<b>THRUST TYPE</b>  Page 143	
	<b>PLATE STOCK</b>  Page 143	<b>CORED BARS</b>  Page 144	<b>SOLID BARS</b>  Page 144	
<b>BEAR-N-BRONZ® 660 CAST BRONZE</b>	<b>PLAIN CYLINDRICAL</b>  Pages 146–150	<b>CORED BARS</b>  Pages 151–153	<b>SOLID BARS</b>  Page 153	
<b>BRONZE EMERGENCY BEARING BANKS</b>	<b>BOST-BRONZ &amp; BEAR-N-BRONZ</b>  Page 154	<b>BOSTONE® F-1 GLASS FILLED TEFLON</b>		
<b>BOSTonE® F-1 GLASS FILLED TEFLON</b>	<b>FLANGED</b>  Page 156	<b>THRUST TYPE</b>  Page 157	<b>PLAIN CYLINDRICAL</b>  Page 156	
<b>Rulon®</b>	<b>RULON® 641 BEARINGS</b>  Pages 158–159	<b>BOSTONE® MOLDED PLASTIC</b>		<b>FLANGED</b>  Page 161
	<b>PLAIN CYLINDRICAL</b>  Page 161	<b>ROLL END FOR TUBING &amp; STANDARD PIPE</b>  Pages 162–168	<b>EXTRA LENGTH BLIND BORE INSERTS</b>  Page 169	<b>ROLL END ADAPTER FOR HEX SHAFT</b>  Page 169
<b>BOSTonE® MOLDED PLASTIC</b>	<b>ROLLERS</b>  Page 170	<b>SHAFT CLIP</b>  Page 171	<b>STUB SHAFT FOR ROLLERS</b>  Page 171	



















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<b>BOSStonE® MOLDED NYLON</b>	<b>PLAIN CYLINDRICAL</b>  Page 172	<b>FLANGED</b>  Page 172	<b>THRUST TYPE</b>  Page 173	<b>CABLE PULLEYS</b>  Page 173
	<b>1600 SERIES</b>  Pages 185–186	<b>7500 SERIES</b>  Page 187	<b>7600 SERIES</b>  Page 188	<b>6900 SERIES</b>  Page 189
<b>RADIAL BALL BEARINGS</b>	<b>3000 SERIES</b>  Pages 190–191	<b>400F SERIES FLANGED</b>  Page 192		
	<b>GROUND, UNBANDED</b>  Page 193	<b>600 SERIES</b>  Page 194		
<b>THRUST BALL BEARINGS</b>	<b>2000 SERIES</b>  Page 195	<b>2100 SERIES</b>  Page 196	<b>BALL BEARING WHEELS</b>	<b>2200 SERIES</b>  Page 197
	<b>KF FEMALE SERIES</b>  Page 198	<b>HM-C SERIES HF-C FEMALE SERIES</b>  Page 199		<b>CMHD MALE SERIES CFHD FEMALE SERIES</b>  Page 200
<b>ROD END BEARINGS</b>	<b>HME MALE SERIES HFE FEMALE SERIES</b>  Page 202	<b>HMX MALE SERIES HFX FEMALE SERIES</b>  Page 203		

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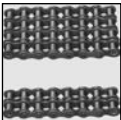

















<b>SPHERICAL BEARINGS</b>	LHA-LHB-LHSS SERIES  Page 204	LHSSE-LHSSV SERIES  Page 205	LS SERIES  Page 206	
	<b>REPLACEMENT BEARINGS &amp; LOCKING COLLAR SERIES</b>	L, H, F, T, A SERIES  Page 213	PS/XL-S-MB SERIES  Page 214	
<b>PILLOW BLOCKS</b>	PPB SERIES  Page 215	PS SERIES  Page 216	XL SERIES  Page 217	L SERIES H SERIES  Pages 218-219
	SL/SH SERIES  Pages 220-221	MB SERIES  Page 222		
<b>FLANGED UNITS</b>	PS2/PS3 SERIES  Page 223	XL2/XL3 SERIES  Page 224	F SERIES T SERIES  Pages 225-226	SF/ST SERIES  Pages 227-228
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<b>SHAFT SUPPORTS</b>	A SERIES  Page 231	<b>TAKE-UP FRAMES</b>	TU SERIES  Page 232	
<b>STAINLESS STEEL MOUNTED BEARINGS</b>	SSUP/SSHC SERIES  Pages 233-234	SSUFL/SSUF SERIES  Pages 235-236	SSUFB SERIES  Page 237	SSUT SERIES  Page 238

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<b>COUPLINGS</b>	<p><b>INSERT (3 JAW)</b></p>  <p>FC Type – Pages 100-101</p>	<p><b>SPIDER RING</b></p>  <p>BF Type – Page 102</p>	<p><b>SHEAR</b></p>  <p>BG Type – Page 103</p>	
	<p><b>CLAMP</b></p>  <p>SCC Type – Page 104</p>	<p><b>MULTI-JAW</b></p>  <p>FA Type – Page 105</p>	<p><b>RIGID</b></p>  <p>CR Type – Page 105</p>	<p><b>SLEEVE</b></p>  <p>FCP Type – Page 106</p>
<b>UNIVERSAL JOINTS</b>	<p><b>PIN &amp; BLOCK</b></p>  <p>J Type – Pages 107-108</p>	<p><b>FORGED</b></p>  <p>UJN Type – Pages 109-111</p>	<p><b>MOLDED</b></p>  <p>JP Type – Page 112</p>	<p><b>MOLDED WITH SLIDE EXTENSION</b></p>  <p>JPE Type – Page 113</p>
	<b>COLLARS</b>	<p><b>SETSCREW</b></p>  <p>SC Type – Page 114</p>	<p><b>CLAMPING-THREADED</b></p>  <p>CSC Type – Page 115</p>	<p><b>CLAMPING – 1 PIECE</b></p>  <p>CS Type – Page 116</p>
<b>WASHERS</b>		<p><b>HARDENED STEEL WASHERS</b></p>  <p>Page 118</p>	<p><b>BUSHINGS</b></p>	
	<b>PULLEYS</b>	<p><b>GROOVED</b></p>  <p>Page 120</p>		
<b>MINIATURE TIMING BELTS &amp; PULLEYS</b>		<p><b>TIMING BELTS</b></p>  <p>Pages 121-124 &amp; 130</p>	<p><b>PULLEYS</b></p>  <p>Pages 125-129 &amp; 131-134</p>	



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<b>ROLLER, BLOCK &amp; LEAF CHAINS</b>	<p>MULTIPLE WIDTHS ANSI STANDARD</p>  <p>Page 251-252</p>	<p>TRANSMISSION SERIES</p>  <p>Page 253</p>	<p>CONVEYOR SERIES</p>  <p>Page 253</p>	<p>HEAVY SERIES</p>  <p>Page 253</p>	
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		<b>DRIVE TENSIONERS</b>	<p>TYPE LG</p>  <p>Page 301</p>	<p>TYPE BG</p>  <p>Pages 301-303</p>	<p>TYPE HG &amp;UG</p>  <p>Page 304</p>