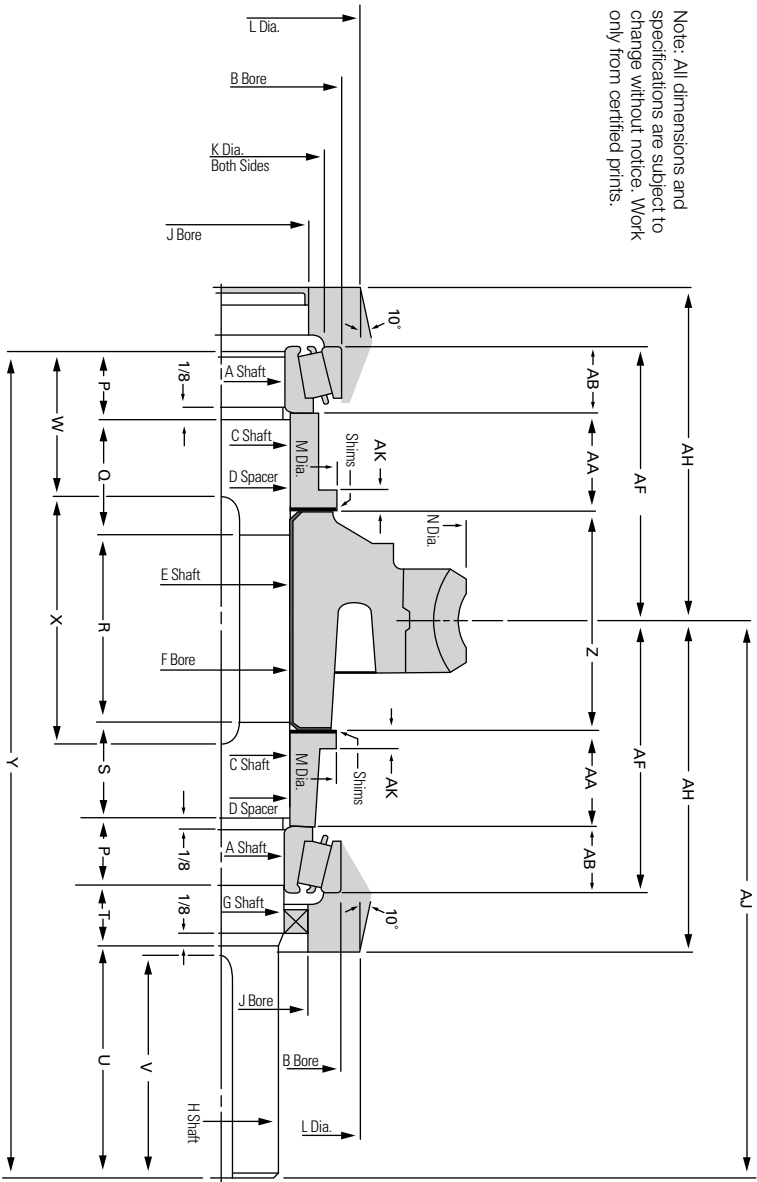


2" - 4" Center Distance

Center Distance	Timken BRGS. Part No.	Symbol	Seals Width
2	L4463/L4610	DH37C-1	1/4
2 1/2	LM67048/LM67010	DH37B	1/4
3	LM48548/LM6510	DH37C	1/4
3 1/2	2789/2720	DH37D	5/16
4	25590/25520	DH37E	1/2

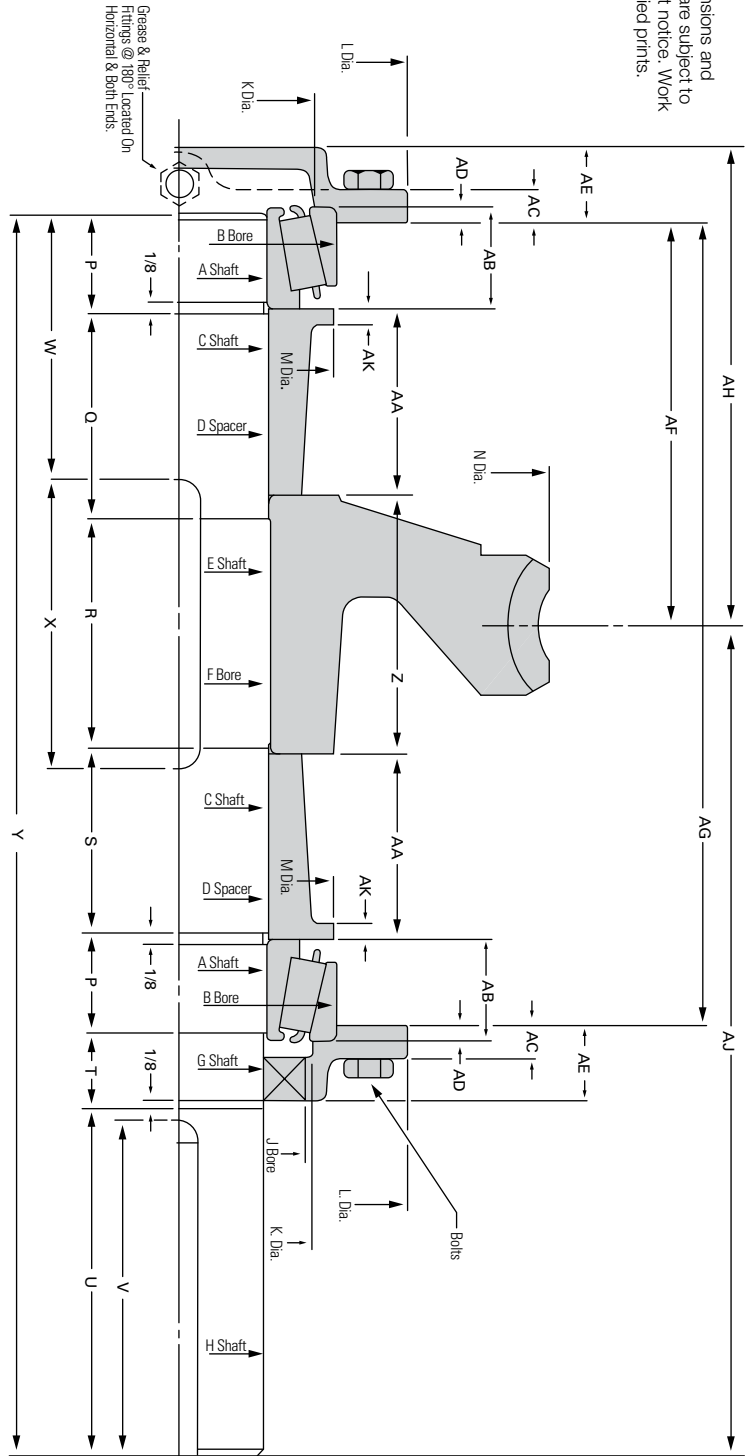
E-20 Shaft has 1.0005/.9995 Dia. for full length of Y.

Center Distance	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AF	AH	AJ	AK	Gear Key
2	-	1.9820	-	-	-	.998	-	1.0005	.995	1.438	1.11/16	2 1/2	-	3.38	-	-	-	-	-	1.7/8	9/16	2 1/8	5.58	2.000	-	.5600 .5740	1.596	2.065	4	-	1/4 SQ. 1/4 SQ.
2 1/2	1.2515	2.3300	1.299	1.302	1.3774	1.375	1.2500	1.1250	1.687	2	2 7/8	2.2785	4.38	21/32	13/16	117/32	31/32	5/8	2 1/4	2 1/8	115/32	211/16	7 7/8	1.875	.9535 .9590	.6250	2.552	3.000	5.38	3/16	5/16 SQ. 1/4 SQ.
3	1.3765	2.5545	1.426	1.429	1.5017	1.500	1.3750	1.2500	1.875	2 1/4	3 1/4	2.513	5 1/4	23/32	1 1/4	2 1/32	1 1/32	5/8	2 1/2	2 3/8	1 9/16	2 5/8	8 7/8	2.375	.9935 .7240	.7100	2.927	3.582	6	3/16	3/8 SQ. 1/4 SQ.
3 1/2	1.5840	3.0020	1.612	1.615	1.6274	1.625	1.562	1.5000	2.375	2 5/8	3 3/4	2.952	6 3/16	1	1 3/8	2 3/32	1 5/32	13/16	3	2 15/16	2	2 5/8	10 7/16	2.438	1.1412 .9455	.9375	3.328	4.125	7 1/8	3/16	3/8 SQ. 3/8 SQ.
4	1.7975	3.2570	1.862	1.865	1.8774	1.875	1.781	1.750	2.624	2 7/8	3 3/4	3.217	7 1/8	1	2 5/32	2 5/32	1 15/16	7/8	3 1/2	3 7/16	2 11/16	2 7/8	12 5/8	2.500	1.9335 .9455	.9375	4.174	5.000	8 1/2	3/16	1/2 SQ. 3/8 SQ.



5"- 12" Center Distance

Note: All dimensions and specifications are subject to change without notice. Work only from certified prints.

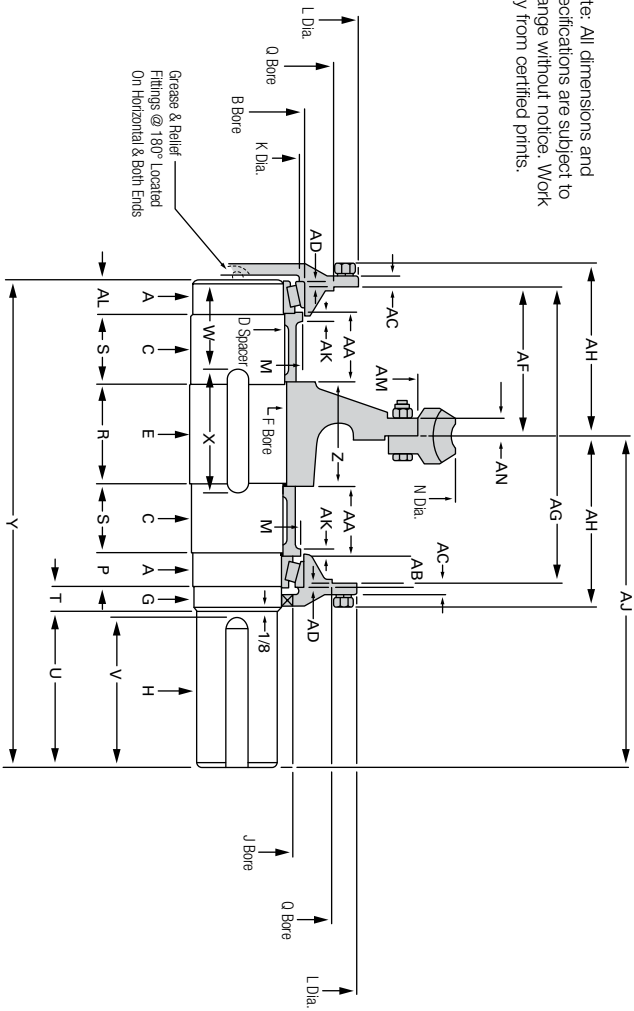


Center Distance	A										B										C										D										E										F										G										H										I										J										K										L										M										N										O										P										Q										R										S										T										U										V										W										X										Y										Z										AA										AB										AC										AD										AE										AF										AG										AH										AI									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI																																																																																																																																																																																																																																																																																								
20640	3.6718	2.112	2.115	2.127	2.125	2.080	3.0656	3.118	5.676	3.6238	8.718	1.562	2.318	2.2162	2.522	7.18	4	3.718	3.176	3.318	14.318	3.000	2.7405	1.1875	3.18	.1875	7.18	4.625	9.250	5.172	9.518	2.0635	3.322	2.487	2.900	2.500	2.5012	2.375	2.290	3.1225	3.394	6.716	4.3955	10.718	1.316	2.2312	3.532	2.172	7.18	4.172	4.318	3.318	4	16.718	3.500	2.4555	1.1875	3.18	.1875	15.716	5.1875	10.375	6.718	10.394																																																																																																																																																																																																																																																																																														
5	2.0635	3.322	2.487	2.900	2.500	2.5012	2.375	2.290	3.1225	3.394	6.716	4.3955	10.718	1.316	2.2312	3.532	2.172	7.18	4.172	4.318	3.318	4	16.718	3.500	2.4555	1.1875	3.18	.1875	15.716	5.1875	10.375	6.718	10.394	2.0635	3.322	2.487	2.900	2.500	2.5012	2.375	2.290	3.1225	3.394	6.716	4.3955	10.718	1.316	2.2312	3.532	2.172	7.18	4.172	4.318	3.318	4	16.718	3.500	2.4555	1.1875	3.18	.1875	15.716	5.1875	10.375	6.718	10.394																																																																																																																																																																																																																																																																																												
6	2.3761	4.4889	2.487	2.900	2.500	2.5012	2.375	2.290	3.1225	3.394	6.716	4.3955	10.718	1.316	2.2312	3.532	2.172	7.18	4.172	4.318	3.318	4	16.718	3.500	2.4555	1.1875	3.18	.1875	15.716	5.1875	10.375	6.718	10.394	2.3761	4.4889	2.487	2.900	2.500	2.5012	2.375	2.290	3.1225	3.394	6.716	4.3955	10.718	1.316	2.2312	3.532	2.172	7.18	4.172	4.318	3.318	4	16.718	3.500	2.4555	1.1875	3.18	.1875	15.716	5.1875	10.375	6.718	10.394																																																																																																																																																																																																																																																																																												
7	2.6275	4.8125	2.734	2.739	2.879	2.8750	2.625	2.500	3.6215	4.114	6.1716	4.7645	12.12	1.1562	2.114	3.2762	2.192	11.16	5	4.1516	3.118	4.58	16.1516	4.000	2.0155	1.500	1.12	.125	1	5.375	10.750	6.378	11.12	2.6275	4.8125	2.734	2.739	2.879	2.8750	2.625	2.500	3.6215	4.114	6.1716	4.7645	12.12	1.1562	2.114	3.2762	2.192	11.16	5	4.1516	3.118	4.58	16.1516	4.000	2.0155	1.500	1.12	.125	1	5.375	10.750	6.378	11.12																																																																																																																																																																																																																																																																																												
8	3.0015	5.3438	3.104	3.106	3.129	3.1250	2.875	2.750	3.7485	4.916	7.916	5.296	14.318	1.2562	1.1516	4.562	1.2362	15.16	5.12	5.7716	3.118	5.18	17.1316	4.500	1.704	1.750	1.12	.1875	1	5.500	11.000	6.172	12.18	3.0015	5.3438	3.104	3.106	3.129	3.1250	2.875	2.750	3.7485	4.916	7.916	5.296	14.318	1.2562	1.1516	4.562	1.2362	15.16	5.12	5.7716	3.118	5.18	17.1316	4.500	1.704	1.750	1.12	.1875	1	5.500	11.000	6.172	12.18																																																																																																																																																																																																																																																																																												
9	3.5025	6.3750	3.608	3.612	3.6287	3.6250	3.500	3.250	4.4955	5.916	8.916	6.327	16.118	1.2762	2.7116	4.2162	2.732	1.14	6.172	8.318	3.58	5.34	20.34	5.000	2.204	1.875	1.12	.1875	1.114	6.375	12.750	7.518	14.114	3.5025	6.3750	3.608	3.612	3.6287	3.6250	3.500	3.250	4.4955	5.916	8.916	6.327	16.118	1.2762	2.7116	4.2162	2.732	1.14	6.172	8.318	3.58	5.34	20.34	5.000	2.204	1.875	1.12	.1875	1.114	6.375	12.750	7.518	14.114																																																																																																																																																																																																																																																																																												
10	3.7525	6.7500	3.859	3.862	3.8737	3.8750	3.750	3.625	4.9975	5.718	9.316	6.702	17.718	1.2762	3	5.562	2.2562	1.716	7.174	7.316	4.718	6.318	23.316	5.500	2.766	1.875	5.8	.1875	1.7716	7.1875	14.575	8.518	3.7525	6.7500	3.859	3.862	3.8737	3.8750	3.750	3.625	4.9975	5.718	9.316	6.702	17.718	1.2762	3	5.562	2.2562	1.716	7.174	7.316	4.718	6.318	23.316	5.500	2.766	1.875	5.8	.1875	1.7716	7.1875	14.575	8.518																																																																																																																																																																																																																																																																																														
12	4.7525	8.1250	4.859	4.862	4.8735	4.8750	4.75	4.4250	5.4955	7.316	10.1116	8.072	21.518	1.2762	3.516	5.2162	3.392	1.18	8.174	8.318	4.5716	7.718	25.318	6.000	3.079	1.875	5.8	.1875	1.7118	7.750	15.500	8.778	4.7525	8.1250	4.859	4.862	4.8735	4.8750	4.75	4.4250	5.4955	7.316	10.1116	8.072	21.518	1.2762	3.516	5.2162	3.392	1.18	8.174	8.318	4.5716	7.718	25.318	6.000	3.079	1.875	5.8	.1875	1.7118	7.750	15.500	8.778	17.172																																																																																																																																																																																																																																																																																													

Center Distance	AK	Bolts Qty.	B.C	Gear Key	PT.C Key	Timen BRSS Part No.	Seals Symbol	Width
5	3/16	6	5/16	4/38	1/2 SO.	3/61/3720	DH37F	1/2
6	3/16	6	3/8	5/18	5/8 SO.	3/89/3920	DH37G	1/2
7	3/16	6	7/16	5/34	3/4 SO.	5/8 SO. HM212010 HM212019	DH37H	1/2
8	1/4	6	1/2	6/38	3/4 SO.	5/8 SO. 5/76/5735	DH37J	1/2
9	1/4	6	1/2	7/38	7/8 SO.	3/4 SO. 7/59/152	DH37K	5/8
10	1/4	6	9/16	7/18	1 SO.	7/731/76/75	DH37L	5/8
12	1/4	6	5/8	9/16	1 1/4 SO.	1 SO. 7/93/192	DH37M	5/8

14"- 20" Center Distance

Note: All dimensions and specifications are subject to change without notice. Work only from certified prints.



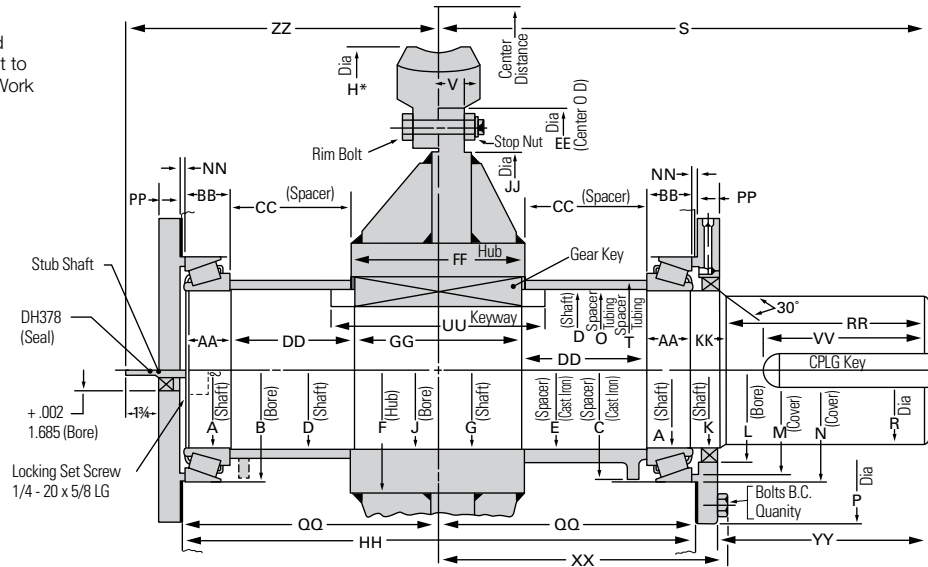
Center Distance	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AG	AH	AJ
14.000	5.2925	7.750	5.305	5.325	5.3795	5.3760	5.128	5.000	6.373	7.116	13.778	7.1176	25.1/4	1.15/16	11.125	5.3/4	4.1/16	1.3/8	9	8.5/8	5.5/16	7.1/8	28.1/8	6.004	4.070	1.8205	5/8	.310	8.555	17.100	9.7/8	19.1/4
	5.2515	7.752	5.295	5.335	5.3785	5.3766	5.125	4.999	6.375						11.127									5.996	4.050	1.8125		.300	8.545	17.090		
17.000	6.0025	10.000	6.070	6.080	6.1300	6.1250	5.878	5.750	7.125	8.15/16	16.1/2	9.15/16	30.1/2	2.3/4	13.251	6.3/4	4	1.3/8	10	9.3/4	6	8.1/4	31.5/8	7.004	4.010	2.633	13/16	.210	9.905	19.800	11.7/16	21.1/2
	6.0015	10.002	6.060	6.090	6.1288	6.1266	5.875	5.749	7.127						13.253									6.996	4.000	2.625		.200	9.895	19.790		
20.000	7.0025	11.375	7.115	7.125	7.1312	7.1250	7.000	6.500	8.250	11.0.1/8	16.5/8	11.5/16	36	2.5/8	13.251	7.3/4	4.13/16	1.7/16	11	10.1/2	6.5/8	9.1/2	35.1/8	8.004	4.950	2.508	13/16	.275	11.150	22.290	12.11/16	23.3/4
	7.0015	11.377	7.105	7.135	7.1300	7.1268	6.995	6.499	8.252						13.253									7.996	4.945	2.500		.265	11.140	22.280		

Center Distance	AK	Qty.	Bolts Dia.	B.C.	Gear Key	CHG. Key	Bearings	Seals	Width	AL	AM	AN
14.000	1/2	8	5/8-11	12/12	1.1/4 X 1.1/4	1.1/4 SQ.	67390 67322	DH37N	5/8	1.15/16	21.014 21.012	1
17.000	1/2	8	3/4-10	15	1.2 X 1	1.1/2 SQ.	99600 99100	DH37P	5/8	2.3/4	25.226 25.264	1.1/8
20.000	1/2	8	3/4-10	15	1.3/4 X 1.1/4	1.1/2 SQ.	94700 94113	DH37SR-3	3/4	2.11/16	30.016 30.014	1.1/4

Gear Shaft Assemblies

14" - 48" Center Distance

Note: All dimensions and specifications are subject to change without notice. Work only from certified prints.



Center Distance	A	B	-1/32 C	D	E	F	G	H*	J	K	L	M	N	O	P	R	S	T	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK
14	5.2525 5.2515	7.750 7.752	7 11/16	5.305 5.295	5.315 5.325	8 1/2	5.3795 5.3783	25 1/4	5.3750 5.3766	5.128 5.125	6.373 6.377	7 1/8	7.748 7.746	5 3/8	10 3/4	5.000 4.999	23 1/4	6	1 15/16	1.8125 1.8205	6.834 6.830	6 13/16	21.0120 21.0140	6.004 5.996	5 3/4	23.760 23.740	17 1/4	1 3/8
17	6.0025 6.0015	10.000 10.002	9 15/16	6.070 6.060	6.080 6.090	9	6.1300 6.1288	30 1/2	6.1250 6.1266	5.878 5.875	7.123 7.127	8 7/8	9.998 9.996	6 1/4	13	5.750 5.749	25 1/2	7 1/4	2 3/4	2.625 2.633	6.521 6.517	6 9/16	25.2640 25.2660	7.004 6.996	6 3/4	25.760 25.740	21 1/2	1 3/4
20	7.0025 7.0015	11.375 11.377	11 5/16	7.115 7.105	7.125 7.135	11	7.1312 7.1300	36	7.1250 7.1268	7.000 6.997	8.248 8.252	10 1/4	11.373 11.371	7 1/4	14 1/2	6.500 6.499	26 1/2	8 1/4	2 5/8	2.500 2.508	7.458 7.454	7 7/16	30.0140 30.0160	8.004 7.996	7 3/4	28.510 28.490	25 3/4	1 9/16
21.837	7.0025 7.0015	11.375 11.377	11 5/16	7.140 7.130	7.150 7.160	11	7.2562 7.2550	39 1/4	7.2500 7.2518	7.000 6.997	8.248 8.252	10 1/4	11.373 11.371	7 1/4	14 1/2	7.000 6.999	25 1/4	8 1/4	2 5/8	2.500 2.508	6.333 6.329	6 5/16	32.0180 32.0205	9.504 9.496	9 1/4	27.760 27.740	27 1/4	1 7/16
24	8.6900 8.6890	12.376 12.378	12 5/16	8.915 8.905	8.925 8.935	14	9.0072 9.0060	42	9.0000 9.0018	8.628 8.625	10.621 10.627	11 9/16	13.373 13.371	9	15 1/2	8.4375 8.4365	27	9 3/4	2 9/16	2.4375 2.4455	6.834 6.830	6 7/8	35.5200 35.5225	9.504 9.496	9 1/4	28.510 28.490	30 3/4	1 9/16
27	8.6900 8.6890	12.376 12.378	12 5/16	8.915 8.905	8.925 8.935	14	9.0072 9.0060	48	9.0000 9.0018	8.628 8.625	10.621 10.627	11 9/16	13.373 13.371	9	15 1/2	8.4375 8.4365	28	9 3/4	2 9/16	2.4375 2.4455	7.709 7.705	7 3/4	40.5220 40.5250	9.504 9.496	9 1/4	30.260 30.240	35 3/4	1 9/16
28	10.0025 10.0015	14.1260 14.1282	14 1/16	10.170 10.160	10.180 10.190	15	10.2572 10.2560	50	10.2500 10.252	10.000 9.997	11.996 12.002	13 3/16	14.123 14.121	10 1/4	17 1/4	9.750 9.749	30	11	2 15/16	2.8125 2.8205	7.784 7.780	7 3/4	42.5220 42.5250	9.504 9.496	9 1/4	31.260 31.240	37 3/4	1 13/16
30	10.0025 10.0015	14.1260 14.1282	14 1/16	10.170 10.160	10.180 10.190	15	10.2572 10.2560	54	10.2500 10.252	10.000 9.997	11.996 12.002	13 3/16	14.123 14.121	10 1/4	17 1/4	9.937 9.936	30	11	2 15/16	2.8125 2.8205	7.784 7.780	7 3/4	46.5220 46.5250	11.504 11.496	11 1/4	33.260 33.240	41 3/4	1 11/16
36	10.6275 10.6265	15.0010 15.0032	14 15/16	10.640 10.630	10.650 10.660	16	10.8822 10.8810	64 3/4	10.875 10.877	10.378 10.375	11.621 11.627	14	14.998 14.996	10 3/4	18	9.937 9.936	30	11 3/4	3 1/16	2.9375 2.9455	7.609 7.605	7 5/8	57.0300 57.0340	11.504 11.496	11 1/4	33.260 33.240	52 1/4	1 15/16
42	13.1300 13.1290	18.5010 18.5035	18 7/16	13.140 13.130	13.150 13.160	22	13.1969 13.1955	75 3/4	13.1875 13.1897	13.003 13.000	14.496 14.502	17 1/4	18.498 18.496	13 1/4	23 1/2	12.875 12.874	39	14 1/2	3 3/4	2.5625 2.5705	10.334 10.330	10 1/4	67.0390 67.0440	11.504 11.496	11 1/4	40.010 39.990	60 3/4	2 1/8
48	15.2510 15.2500	21.5010 21.5040	21 7/16	15.265 15.255	15.275 15.285	25	15.3219 15.3205	88	15.3125 15.3147	13.503 13.500	15.496 15.502	20	21.497 21.495	15 3/8	26 1/2	13.250 13.249	40	17	3 9/16	3.4375 3.4455	11.454 11.450	11 7/16	79.5400 79.5450	11.504 11.496	11 1/4	42.010 41.990	73 3/4	2 1/8

*Maximum varies with ratio. FS 420 & FS 480 have 2-Gear Keys (3 1/2 SQ) @ 90°

Center Distance	NN	PP	QQ	RR	UU	V	Timken BRG Part No.	C/R Seals Part No.	Max Width	Gear	Keys CPLG.	Qty.	Bolts Dia.	B.C.	VV	XX	YY	Stub Shaft Symbol	ZZ	Rim Bolts Qty.	Elastic Stop Nut
14	.250 .260	7/8	11.880 11.870	10 1/4	7	1	67390 67322	51251	5/8	1 1/4 x 1 1/4	1 1/4 x 1 1/4	8	5/8-11	9 1/4	9 7/8	13 1/8	10 1/2	DH1222N	14 1/2	10	DH53N
17	.250 .260	1	12.880 12.870	11 1/16	8 1/4	1 1/8	99600 99100	58716	5/8	1 1/2 x 1	1 1/2 x 1 1/2	8	5/8-11	11 1/2	11	14 1/4	11 5/8	DH1222P	15 5/8	14	DH53P-20
20	.313 .323	1	14.255 14.245	11	9 1/2	1 1/4	94700 94113	70032	3/4	1 3/4 x 1 1/4	1 1/2 x 1 1/2	8	3/4-10	13	10 1/2	15 3/4	11 1/4	DH1222P	17	14	DH53P-20
21.837	.313 .323	1	13.880 13.870	10 1/4	11	1 1/2	94700 94113	70032	3/4	1 3/4 x 1 1/4	1 1/2 x 1 1/2	8	3/4-10	13	9 1/8	15 3/8	10 3/8	DH1222S	16 5/8	14	DH53SR-20
24	.250 .260	1 1/8	14.255 14.245	11 3/8	11 3/4	1 3/4	M244249 M244210	86260	1	2 1/2 x 1 3/4	2 x 2	12	3/4-10	14	10 1/2	15 7/8	11 5/8	DH1222S	17 1/8	18	DH53U-20
27	.250 .260	1 1/8	15.130 15.120	11 1/2	11 3/4	1 3/4	M244249 M244210	86260	1	2 1/2 x 1 3/4	2 x 2	12	3/4-10	14	10	16 3/4	11 3/4	DH1222S	18	20	DH53U-20
28	.300 .310	1 1/8	15.630 15.620	12 7/8	11 3/4	1 3/4	M249749 M249710	100051	1	2 1/2 x 1 3/4	2 3/8 x 2 3/8	12	3/4-10	15 3/4	10	17 1/4	13 1/4	DH1222ST-2	18 1/2	20	DH53U-20
30	.300 .310	1 1/8	16.630 16.620	12	11 3/4	2	M249749 M249710	100051	1	2 1/2 x 1 3/4	2 3/8 x 2 3/8	12	3/4-10	15 3/4	11	18 1/4	12 1/4	DH1222ST-2	19 1/2	20	DH53U-20
36	.350 .360	1 1/8	16.630 16.620	11 3/4	13 3/4	2	M252349 M252310	103740	7/8	2 1/2 x 1 3/4	2 3/8 x 2 3/8	12	3/4-10	16 1/2	10	18 1/4	12 1/4	DH1222ST-2	19 1/2	24	DH53U-20
42	.375 .385	1 1/4	20.005 19.995	17 1/4	13 3/4	2 1/4	HM261049 HM261010	GARLOCK 64X4093	11/16	3 1/2 x 3 1/2	3 x 3	12	1 1/4-7	21	16 1/2	22 3/8	17 3/4	-	23	20	DH53Y
48	.375 .385	1 1/4	21.005 20.995	17 1/4	14 3/4	2 1/4	M667935 M667910	GARLOCK 64X4128	13/16	3 1/2 x 1 1/2	3 x 3	12	1 1/4-7	24	16 1/2	23 3/8	17 3/4	-	24	24	DH53Y