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LUFKIN



PARALLEL SHAFT SPEED REDUCERS

CATALOG G-32A SUPPLEMENT

TYPE DF, TF & QF REDUCERS
SIZES 270C, 320C, 370C, 530C & 600C

GEAR
CATALOG
NO.
G-32A-S

LUFKIN INDUSTRIES, INC.
LUFKIN, TEXAS

MEMBER OF AGMA

7-73

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HORSEPOWER RATING TABLES

TYPE DF — DOUBLE REDUCTION UNITS

The Horsepower Ratings listed in the tables below are mechanical ratings calculated by the A. G. M. A. formula using a Service Factor of 1. See pages 6, 7 and 8 of Gear Catalog No. G-32A for information on selecting reducers. See page 4 for Thermal Horsepower Ratings.

DF 270C

	STANDARD RATIOS									
Motor R.P.M.	7.6	9.2	11.3	13.9	16.9	20.7	25.4	30.9	38.0	46.9
1750	839	716	572	488	386	327	262	218	169	139
1150	589	500	406	340	272	225	184	149	115	95.0
870	463	392	322	265	215	174	144	115	89.2	73.3
720	392	331	274	224	182	147	121	97.1	74.8	61.3
580	324	273	227	184	151	120	99.7	79.3	61.0	50.0
High Speed Shaft Diameter	3	3	3	3	3	3	2½	2½	2½	2

DF 320C

	STANDARD RATIOS									
Motor R.P.M.	7.6	9.4	11.5	13.8	17.3	21.2	25.6	31.7	38.7	47.2
1750	1292	1079	914	764	597	498	405	329	270	215
1150	910	756	638	531	422	343	285	225	188	146
870	717	594	499	415	334	267	224	175	145	113
720	609	503	422	350	284	225	189	146	122	94.8
580	503	415	348	288	234	184	154	120	99.7	77.3
High Speed Shaft Diameter	3¼	3¼	3¼	3¼	3¼	3	3	2½	2½	2½

DF 370C

	STANDARD RATIOS									
Motor R.P.M.	7.6	9.2	11.3	13.8	16.7	20.8	25.5	31.0	38.7	47.3
1750	1827	1558	1307	1081	909	715	599	484	383	301
1150	1291	1096	915	754	638	495	413	332	269	205
870	1020	863	718	590	498	386	321	258	210	159
720	867	732	608	499	420	325	270	217	176	133
580	718	606	502	411	346	267	221	177	144	109
High Speed Shaft Diameter	3¾	3¾	3¾	3½	3½	3½	3½	3¼	3¼	3

DF 530C

	STANDARD RATIOS									
Motor R.P.M.	7.7	9.3	11.3	14.2	17.2	20.9	25.8	31.9	37.9	47.0
1750	....	....	....	2756	2341	1918	1603	1203	1034	791
1150	3305	2826	2412	1935	1637	1336	1112	831	712	543
870	2623	2237	1903	1523	1284	1046	868	647	554	421
720	2237	1904	1617	1291	1087	884	732	546	466	354
580	1861	1580	1340	1067	897	728	602	448	382	290
High Speed Shaft Diameter	5½	5½	5½	5½	5½	5	5	4	4	4

DF 600C

	STANDARD RATIOS									
Motor R.P.M.	7.7	9.3	11.5	13.7	17.3	21.1	25.8	31.4	37.5	46.9
1750	....	....	....	3865	3119	2542	2142	1634	1400	1069
1150	4512	3840	3232	2725	2235	1776	1492	1133	968	736
870	3589	3046	2555	2149	1757	1393	1167	884	754	572
720	3066	2596	2173	1825	1489	1178	986	746	635	481
580	2554	2158	1803	1511	1230	972	811	613	521	394
High Speed Shaft Diameter	5¾	5¾	5¾	5¾	5¾	5½	5½	4½	4½	4½

HORSEPOWER

Ratios listed are standard but intermediate ratios are available.

Ratings for intermediate ratios and speeds may be found by direct interpolation.

All units may be operated at speeds lower than the minimum shown. The selection of a reducer for a lower speed may be accomplished by multiplying the desired horsepower by 580 and dividing by the desired speed. The result will be the equivalent horsepower at 580 RPM which can be found in the above tables.

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OUTPUT TORQUE RATING TABLES

1000 INCH POUNDS

TYPE DF — DOUBLE REDUCTION UNITS

The Output Torque Ratings listed in the tables below are calculated using a Service Factor of 1. See pages 6, 7 and 8 of Gear Catalog G-32A for information on selecting reducers. See page 4 for Thermal Horsepower Ratings.

DF 270C

	STANDARD RATIOS									
Motor R.P.M.	7.6	9.2	11.3	13.9	16.9	20.7	25.4	30.9	38.0	46.9
1750	230	238	233	244	235	243	239	243	231	236
1150	246	253	252	259	252	255	256	253	240	244
870	256	262	264	267	263	262	266	259	245	248
720	262	268	272	272	270	266	270	263	248	251
580	268	274	280	278	278	271	275	266	251	254

DF 320C

	STANDARD RATIOS									
Motor R.P.M.	7.6	9.4	11.5	13.8	17.3	21.2	25.6	31.7	38.7	47.2
1750	353	366	378	379	373	380	373	376	377	366
1150	378	390	401	401	401	398	400	392	399	379
870	394	405	415	414	419	410	416	401	408	387
720	404	415	425	423	431	417	424	407	413	392
580	415	425	434	432	441	424	431	414	419	397

DF 370C

	STANDARD RATIOS									
Motor R.P.M.	7.6	9.2	11.3	13.8	16.7	20.8	25.5	31.0	38.7	47.3
1750	497	515	534	536	547	536	550	541	535	513
1150	535	552	569	569	583	564	577	565	571	533
870	559	574	590	589	602	582	593	580	591	545
720	574	589	604	602	615	592	603	589	599	552
580	590	605	619	616	628	604	614	599	608	560

DF 530C

	STANDARD RATIOS									
Motor R.P.M.	7.7	9.3	11.3	14.2	17.2	20.9	25.8	31.9	37.9	47.0
1750	....	....	....	1406	1452	1445	1489	1381	1412	1338
1150	1391	1438	1484	1503	1545	1531	1572	1453	1480	1398
870	1460	1505	1548	1563	1602	1585	1622	1496	1521	1434
720	1505	1548	1589	1601	1639	1618	1654	1523	1547	1456
580	1554	1595	1635	1643	1679	1655	1688	1553	1575	1480

DF 600C

	STANDARD RATIOS									
Motor R.P.M.	7.7	9.3	11.5	13.7	17.3	21.1	25.8	31.4	37.5	46.9
1750	....	....	....	1904	1940	1931	1989	1846	1890	1808
1150	1898	1967	2039	2043	2116	2053	2107	1947	1988	1895
870	1996	2062	2130	2130	2199	2128	2179	2009	2046	1946
720	2060	2124	2190	2186	2252	2176	2224	2049	2084	1979
580	2130	2192	2255	2247	2309	2228	2273	2091	2123	2013

Ratings shown are in thousands of in. lbs. at low speed shaft.
Ratings for intermediate ratios and speeds may be found by direct interpolation.
For input speeds lower than speeds shown, use torque rating for minimum speed shown in table.

TORQUE

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THERMAL HORSEPOWER RATINGS

TYPE DF—DOUBLE REDUCTION UNITS

The Thermal Horsepower Rating listed here for a particular unit at a given ratio and speed must be equal to or higher than the ACTUAL HORSEPOWER DELIVERED.

The Table below must be used to check the selection of a gear unit after the selection has been made on the basis of mechanical rating shown on page 2.

	High Speed Shaft R.P.M.	RATIOS 7.6	9.3	11.4	13.9	17.1	20.9	25.6	31.4	38.4	47.1
DF 270C	1750	188	197	205	211	219	224	230	....	....	....
	1150	232	238	243	247	253	....	....	....	....	....
	870	253	258	262	265	....	....	....	....	....	....
	720	264	269	273	....	....	....	....	....	....	....
	580	276	....	....	....	....	....	....	....	....	....
DF 320C	1750	223	233	243	250	259	266	272	279	....	....
	1150	275	281	288	293	299	304	....	....	....	....
	870	299	306	311	315	320	....	....	....	....	....
	720	313	318	323	327	....	....	....	....	....	....
	580	326	330	334	....	....	....	....	....	....	....
DF 370C	1750	272	285	297	305	316	325	333	341	349	....
	1150	336	344	352	358	366	371	380	....	....	....
	870	366	374	380	385	391	....	....	....	....	....
	720	382	389	395	400	404	....	....	....	....	....
	580	399	403	408	....	....	....	....	....	....	....
DF 530C	1750	....	....	....	444	460	472	484	496	508	512
	1150	488	500	512	520	532	540	552	560	568	....
	870	532	544	552	560	568	576	584	592	....	....
	720	556	566	574	582	588	596	604	....	....	....
	580	580	586	594	600	606	612	....	....	....	....
DF 600C	1750	....	....	....	494	511	525	538	551	565	569
	1150	543	556	569	578	591	600	614	623	631	636
	870	582	605	614	623	631	640	649	658	663	....
	720	618	630	638	647	654	663	672	678	....	....
	580	645	652	660	667	674	680	689	....	....	....

NOTE: Where Thermal Horsepower Ratings are not shown at the right hand side of the above tables, the Thermal Horsepower Rating is higher than the Mechanical Rating of the Reducer shown on page 2 for that ratio and speed.

OVERHUNG LOAD CAPACITIES

SLOW SPEED SHAFTS

The table below shows moderate overhung load capacities for standard Type DF Reducers. It is assumed that the external load is acting one shaft diameter out from the seal. Special Heavy Overhung Load capacity reducers are available if actual loading exceeds the tabulated values. Consult us for recommendations.

The table below does not apply for double extended slow speed shafts. Present your application to us for recommendations.

The actual load imposed on a shaft for a given condition of service may be determined by the formula on the bottom of page 6 of Gear Catalog No. G32A. For unusual conditions or in case of doubt present your problems to us for recommendations.

Overhung load capacities are figured at the highest speed shown in horsepower rating tables for each size reducer.

Unit No.	REDUCTION RATIOS 7.6	9.3	11.4	13.9	17.1	20.9	25.6	31.4	38.4	47.1
DF 270C	18,147	19,348	20,753	22,117	23,729	25,325	25,962	25,962	25,962	25,962
DF 320C	22,127	23,603	25,171	26,950	28,900	30,898	33,045	34,406	34,406	34,406
DF 370C	19,125	20,411	21,796	23,407	25,018	26,972	28,783	30,903	33,087	35,539
DF 530C	49,549	52,807	56,291	60,358	64,437	69,011	74,142	79,185	84,506	90,376
DF 600C	48,505	51,714	55,1164	59,170	63,360	68,128	72,672	78,608	83,765	89,998

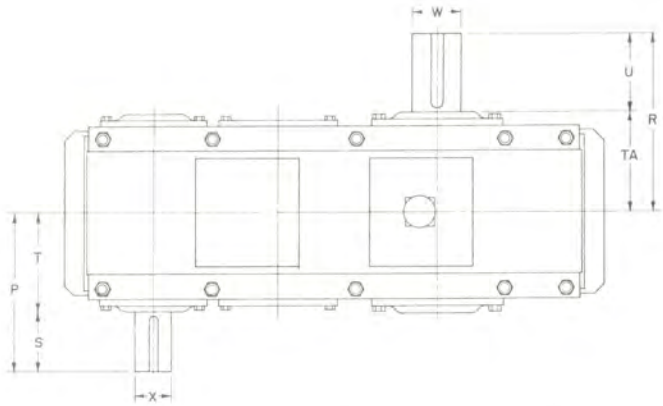
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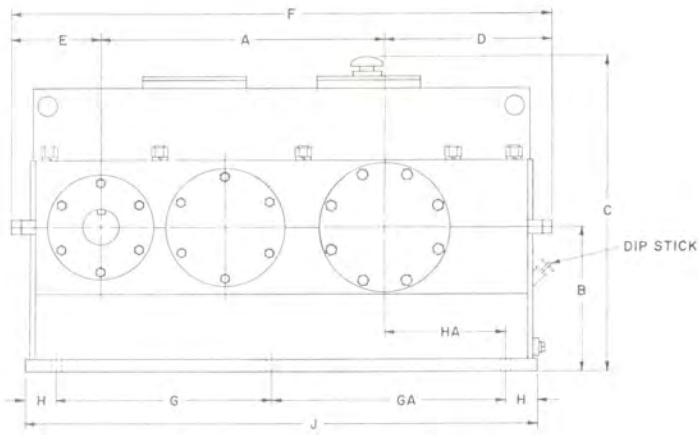
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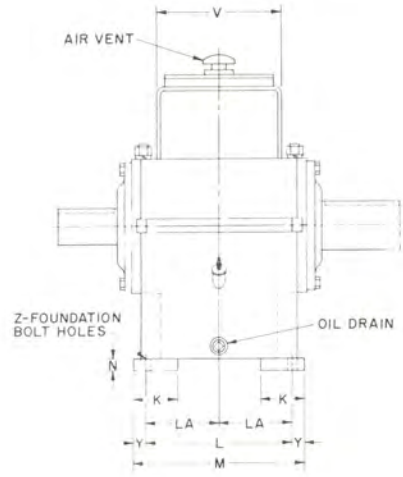
TYPE DF

DOUBLE REDUCTION GEAR REDUCERS

FABRICATED STEEL HOUSING







Size No.	A	B	C	D	E	F	G	GA	H	HA	J	K	L	LA	M	N	P	R	S	T	TA	U	V	W*	Y	X*	Z-Bolt Holes	Approximate Oil Capacity Gallons Min. Ratio	Approximate Oil Capacity Gallons Max. Ratio	Weight
DF 270C . .	27	19	39	19¼	9¾	56	22	22	4	13¼	52	7	23	11½	26	1¼	19¼	24	6⅛	13⅛	13⅜	10⅝	17½	5¾	1½	For High Speed Shaft Dias. See Table of H.P. Ratings on Page 9	6-1⅜	40	32	4,850
DF 320C . .	32	21	44	21	10	63	25½	25½	4½	15	60	8	25½	12⅜	28½	1¾	21	26	6¾	14¼	14⅝	11⅜	19¾	6¾	1½		6-1⅜	52	40	6,950
DF 370C . .	37	25	50	24½	11	72½	29	29	5¼	17¼	68½	8	28	14	32	1¾	23	29	7½	15½	16	13	21½	7¾	2		6-1⅝	81	63	9,550
DF 530C .	53	33	66½	32	14½	99½	3 × 21½	21½	5¼	25¼	96½	9	38	19	42	2¾	32	39	9⅜	22⅝	22⅞	16⅛	31¼	10	2		10-1⅜	201	144	24,750
DF 600C . .	60	36	73	36	14½	110½	3 × 24¼	24¼	5¼	29¼	107½	9	40	20	44	2¾	33	42	9⅝	23⅜	23⅝	18⅜	32¾	11	2		10-1⅜	256	186	30,750

All dimensions are in inches.
*For Shaft Keyways, see Table of Standard Keyways Page 48 of Gear Catalog No. G-32A.

Above dimensions are not to be used for installation. USE CERTIFIED INSTALLATION PRINT.

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HORSEPOWER RATING TABLES

TYPE TF–TRIPLE REDUCTION UNITS

The Horsepower Ratings listed in the tables below are Mechanical ratings calculated by the A.G.M.A. formula using a Service Factor of 1. See pages 6,7 and 8 of Gear Catalog No. G-32A for information on selecting reducers. See page 8 for Thermal Horsepower Ratings.

TF 270C

Motor R.P.M.	STANDARD RATIOS									
	47.9	58.3	71.8	85.4	106.0	130.6	157.4	196.2	240.1	286.4
1750	172	143	118	100	82.4	63.8	53.5	43.4	34.2	28.9
1150	116	97.4	80.1	68.0	55.4	42.8	35.8	29.0	22.8	19.2
870	90.1	74.9	61.5	52.2	42.5	32.8	27.4	22.1	17.4	14.7
720	75.4	62.6	51.4	43.5	35.4	27.3	22.8	18.4	14.5	12.2
580	61.4	51.0	41.8	35.4	28.7	22.2	18.5	14.9	11.7	9.91
High Speed Shaft Diameter	1¾	1¾	1¾	1¾	1¾	1¾	1¾	1¼	1¼	1¼

TF 320C

Motor R.P.M.	STANDARD RATIOS									
	47.3	58.1	71.8	86.5	106.7	130.8	161.5	197.4	240.0	294.1
1750	264	219	180	151	124	99.9	81.8	67.6	52.6	43.3
1150	179	148	121	102	84.0	67.1	54.9	45.3	35.2	28.9
870	138	114	93.8	78.6	64.4	51.4	42.0	34.6	26.8	22.0
720	116	95.8	78.4	65.7	53.8	42.9	35.0	28.8	22.3	18.3
580	94.9	78.1	63.8	53.4	43.7	34.8	28.4	23.4	18.1	14.8
High Speed Shaft Diameter	2	2	2	2	2	1½	1½	1½	1½	1½

TF 370C

Motor R.P.M.	STANDARD RATIOS									
	47.5	58.3	71.7	88.1	105.8	129.8	155.8	195.9	240.1	296.2
1750	383	318	263	218	183	143	120	97.3	74.7	61.1
1150	261	216	178	147	124	96.5	81.2	65.2	50.0	40.8
870	202	167	137	113	95.3	74.0	62.2	49.9	38.2	31.2
720	169	139	115	94.7	79.5	61.8	51.8	41.6	31.8	25.9
580	138	114	93.8	77.0	64.7	50.2	42.1	33.7	25.8	21.0
High Speed Shaft Diameter	2¼	2¼	2¼	2¼	2¼	2¼	2¼	2¼	1¾	1¾

TF 530C

Motor R.P.M.	STANDARD RATIOS									
	47.2	57.8	69.7	87.5	108.3	127.6	156.9	191.3	234.5	298.1
1750	1064	887	749	609	501	407	335	279	208	166
1150	729	606	510	413	339	275	226	187	139	111
870	565	469	394	319	261	211	173	144	107	85.1
720	475	393	330	267	218	176	145	120	89.3	70.9
580	389	321	269	217	177	143	118	97.6	72.5	57.5
High Speed Shaft Diameter	3½	3½	3½	3½	3½	3½	2¾	2¾	2¾	2¾

TF 600C

Motor R.P.M.	STANDARD RATIOS									
	47.3	58.4	71.8	85.8	107.2	128.9	159.8	190.7	234.6	293.1
1750	1426	1182	982	836	683	544	446	378	281	228
1150	980	809	670	569	463	368	301	255	189	153
870	761	627	518	439	357	283	231	195	145	117
720	640	526	435	368	298	237	193	163	121	97.9
580	524	430	355	300	243	193	157	132	98.5	79.5
High Speed Shaft Diameter	3¾	3¾	3¾	3¾	3¾	3¼	3¼	3¼	3¼	3¼

Ratios listed are standard but intermediate ratios are available.

Ratings for intermediate ratios and speeds may be found by direct interpolation.

All units may be operated at speeds lower than the minimum shown. The selection of a reducer for a lower speed may be accomplished by multiplying the desired horsepower by 580 and dividing by the desired speed. The result will be the equivalent horsepower at 580 RPM which can be found in the above tables.

HORSEPOWER

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OUTPUT TORQUE RATING TABLES

1000 INCH POUNDS

TYPE TF—TRIPLE REDUCTION UNITS

The Output Torque Ratings listed in the tables below are calculated using a Service Factor 1. See pages 6, 7 and 8 of Gear Catalog No. G-32A for information on selecting reducers. See page 8 for Thermal Horsepower Ratings.

TF 270C

	STANDARD RATIOS									
Motor R.P.M.	47.9	58.3	71.8	85.4	106.0	130.6	157.4	196.2	240.1	286.4
1750	297	302	306	310	314	300	303	306	296	298
1150	307	311	315	318	322	306	309	312	301	302
870	312	316	320	323	326	310	312	315	303	305
720	316	319	323	325	328	312	314	317	305	306
580	320	323	326	328	331	315	317	319	307	308

TF 320C

	STANDARD RATIOS									
Motor R.P.M.	47.3	58.1	71.8	86.5	106.7	130.8	161.5	197.4	240.0	294.1
1750	450	458	466	472	479	470	476	481	455	459
1150	466	473	480	485	491	481	486	490	463	466
870	475	482	488	493	498	487	491	495	467	470
720	481	487	493	497	502	491	495	498	470	473
580	487	493	498	502	506	495	498	502	473	475

TF 370C

	STANDARD RATIOS									
Motor R.P.M.	47.5	58.3	71.7	88.1	105.8	129.8	155.8	195.9	240.1	296.2
1750	656	668	680	691	700	670	677	686	646	652
1150	681	692	702	711	719	686	693	700	658	663
870	695	705	714	723	730	696	702	708	665	669
720	704	714	722	730	736	702	707	713	669	673
580	714	722	730	738	743	708	713	718	673	677

TF 530C

	STANDARD RATIOS									
Motor R.P.M.	47.2	57.8	69.7	87.5	108.3	127.6	156.9	191.3	234.5	298.1
1750	1808	1847	1881	1920	1954	1871	1898	1922	1759	1782
1150	1886	1921	1951	1984	2013	1924	1948	1969	1798	1818
870	1933	1964	1991	2022	2048	1956	1977	1995	1821	1838
720	1962	1992	2017	2045	2070	1975	1995	2012	1834	1851
580	1993	2021	2044	2070	2092	1995	2013	2029	1849	1864

TF 600C

	STANDARD RATIOS									
Motor R.P.M.	47.3	58.4	71.8	85.8	107.2	128.9	159.8	190.7	234.6	293.1
1750	2430	2488	2541	2585	2636	2527	2568	2600	2381	2412
1150	2542	2593	2640	2678	2722	2604	2639	2666	2438	2464
870	2609	2656	2698	2733	2772	2649	2681	2705	2471	2494
720	2651	2695	2735	2767	2804	2677	2707	2729	2491	2512
580	2696	2736	2773	2803	2837	2707	2734	2754	2512	2532

TORQUE

Ratings shown are in thousands of in. lbs. at low speed shaft.
Ratings for intermediate ratios and speeds may be found by direct interpolation.
For input speeds lower than speeds shown, use torque rating for minimum speed shown in table.

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THERMAL HORSEPOWER RATINGS

TYPE TF

The Thermal Horsepower Rating listed here for a particular unit at a given ratio and speed must be equal to or higher than the ACTUAL HORSEPOWER DELIVERED.

The Table below must be used to check the selection of a gear unit after the selection has been made on the basis of mechanical rating shown on page 6.

	High Speed Shaft R.P.M.	RATIOS					
		57.7	70.6	86.5	105.9	129.7	158.9
TF 530C	1750	520	528	534			
	1150	578					
	870						
	720						
	580						
TF 600C	1750	578	587	594			
	1150	643					
	870						
	720						
	580						

NOTE: Where Thermal Horsepower Ratings are not shown, the Thermal Horsepower Rating is higher than the Mechanical Rating of the Reducer shown on pages 6 for that ratio and speed.

OVERHUNG LOAD CAPACITIES

SLOW SPEED SHAFTS

The table below shows moderate overhung load capacities for standard Type TF Reducers. It is assumed that the external load is acting one shaft diameter out from the seal. Special Heavy Overhung Load capacity reducers are available if actual loading exceeds the tabulated values. Consult us for recommendations.

The table below does not apply for double extended slow speed shafts. Present your application to us for recommendations.

The actual load imposed on a shaft for a given condition of service may be determined by the formula on the bottom of page 6 of Gear Catalog No. G-32A. For unusual conditions or in case of doubt present your problems to us for recommendations.

Overhung load capacities are figured at the highest speed shown in horsepower rating tables for each size reducer.

Unit No.	REDUCTION RATIOS									
	47.1	57.7	70.6	86.5	105.9	129.7	158.9	194.6	238.4	291.9
TF 270C	25,962	25,962	25,962	25,962	25,962	25,962	25,962	25,962	25,962	25,962
TF 320C	34,406	34,406	34,406	34,406	34,406	34,406	34,406	34,406	34,406	34,406
TF 370C	34,596	36,940	39,460	42,084	44,859	44,859	44,859	44,859	44,859	44,859
TF 530C	87,736	90,376	90,376	90,376	90,376	90,376	90,376	90,376	90,376	90,376
TF 600C	86,674	92,547	98,888	101,597	101,597	101,597	101,597	101,597	101,597	101,597

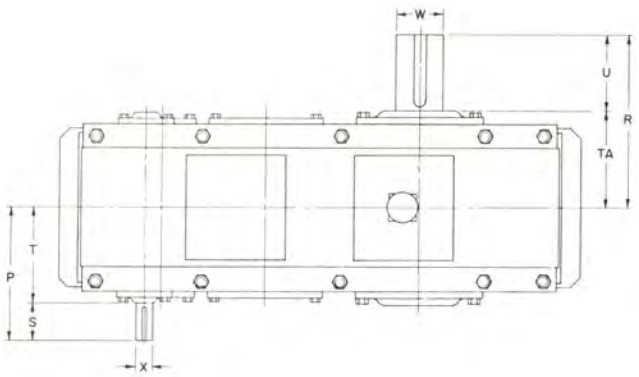
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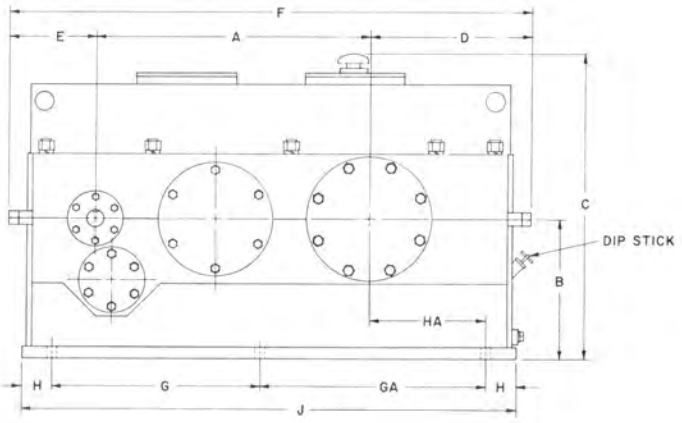
GENERAL DIMENSIONS

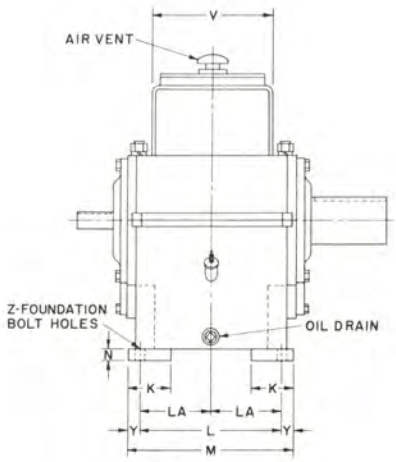
TYPE TF

TRIPLE REDUCTION GEAR REDUCERS

FABRICATED STEEL HOUSING







Size No.	A	B	C	D	E	F	G	GA	H	HA	J	K	L	LA	M	N	P	R	S	T	TA	U	V	W*	Y	X*	Z-Bolt Holes	Approximate Oil Capacity Gallons Min. Ratio	Approximate Oil Capacity Gallons Max. Ratio	Weight
TF 270C . .	27	19	39	19¼	9¾	56	22	22	4	13¼	52	7	23	11½	26	1¼	17	24	4⅛	12⅞	13⅜	10⅝	17½	5¾	1½	For High Speed Shaft Dias. See Table of H.P. Ratings on Page 5	6-1⅜	35	32	5,150
TF 320C . .	32	21	44	21	10	63	25½	25½	4½	15	60	8	25½	12¾	28½	1¾	18¾	26	4⅝	14⅛	14⅝	11⅜	19¾	6¾	1½		6-1⅜	45	41	7,375
TF 370C . .	37	25	50	24½	11	72½	29	29	5¼	17¼	68½	8	28	14	32	1¾	20	29	4⅝	15⅜	16	13	21½	7¾	2		6-1⅝	70	63	10,250
TF 530C . .	53	33	66½	32	14½	99½	3@21½	21½	5¼	25¼	96½	9	38	19	42	2¾	29¾	39	7⅛	22⅝	22⅞	16⅛	31¼	10	2		10-1⅝	163	144	26,100
TF 600C . .	60	36	73	36	14½	110½	3@24¼	24¼	5¼	29¼	107½	9	40	20	44	2¾	31	42	7⅝	23⅜	23⅝	18⅜	32¾	11	2		10-1⅝	211	187	32,150

All dimensions are in inches.
*For Shaft Keyways, see Table of Standard Keyways Page 48 of Gear Catalog No. G-32A.

Above dimensions are not to be used for installation. USE CERTIFIED INSTALLATION PRINT.

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HORSEPOWER RATING TABLES

TYPE QF–QUADRUPLE REDUCTION UNITS

The Horsepower Ratings listed in the tables below are mechanical ratings calculated by the A.G.M.A. formula using a Service Factor of 1. See pages 6, 7, and 8 of Gear Catalog No. G-32A for information on selecting reducers.

QF 270C

	STANDARD RATIOS									
Motor R.P.M.	297.6	359.1	446.0	545.3	652.9	798.0	1005.1	1216.4	1515.9	1855.4
1750	30.8	25.7	20.8	17.1	13.6	11.1	8.92	7.40	5.96	4.68
1150	20.5	17.1	13.8	11.4	9.02	7.41	5.91	4.90	3.94	3.09
870	15.6	13.0	10.5	8.68	6.86	5.64	4.49	3.72	2.99	2.35
720	13.0	10.8	8.78	7.21	5.70	4.68	3.73	3.08	2.48	1.95
580	10.5	8.78	7.10	5.83	4.61	3.78	3.01	2.49	2.00	1.57
High Speed Shaft Diameter	1½	1½	1½	1½	1½	1½	1¼	1¼	1¼	1¼

QF 320C

	STANDARD RATIOS									
Motor R.P.M.	297.0	359.2	432.5	541.5	667.6	802.2	969.2	1230.1	1503.3	1827.7
1750	47.2	39.3	32.8	26.4	21.6	18.0	14.5	11.5	9.47	7.33
1150	31.5	26.2	21.9	17.5	14.3	11.9	9.65	7.64	6.27	4.85
870	24.0	20.0	16.6	13.4	10.9	9.11	7.34	5.80	4.76	3.68
720	20.0	16.6	13.8	11.1	9.06	7.56	6.09	4.81	3.95	3.05
580	16.2	13.4	11.2	9.0	7.33	6.11	4.92	3.89	3.19	2.46
High Speed Shaft Diameter	1¾	1¾	1¾	1¾	1¾	1½	1½	1½	1½	1½

QF 370C

	STANDARD RATIOS									
Motor R.P.M.	297.0	353.2	434.0	538.4	646.3	805.4	994.6	1186.3	1492.0	1828.6
1750	69.3	58.7	48.1	39.1	32.7	26.4	20.3	17.1	13.7	10.4
1150	46.3	39.1	32.0	26.0	21.7	17.5	13.5	11.3	9.07	6.92
870	35.3	29.8	24.4	19.8	16.5	13.3	10.2	8.63	6.89	5.25
720	29.4	24.8	20.3	16.4	13.7	11.1	8.52	7.17	5.72	4.36
580	23.8	20.1	16.4	13.3	11.1	8.97	6.89	5.79	4.62	3.52
High Speed Shaft Diameter	2	2	2	2	2	1¾	1¾	1¾	1¾	1¾

QF 530C

	STANDARD RATIOS									
Motor R.P.M.	291.9	359.5	430.9	542.4	657.6	808.9	973.1	1207.9	1471.9	1804.9
1750	197	162	136	109	86.1	70.4	58.9	47.7	39.3	29.2
1150	132	108	91.1	73.0	57.3	46.8	39.1	31.7	26.1	19.3
870	101	82.9	69.6	55.6	43.7	35.7	29.8	24.1	19.8	14.7
720	84.5	69.0	57.9	46.3	36.3	29.6	24.7	20.0	16.4	12.2
580	68.5	56.0	46.9	37.5	29.4	24.0	20.0	16.1	13.3	9.86
High Speed Shaft Diameter	2¾	2¾	2¾	2¾	2¾	2¾	2	2	2	2

QF 600C

	STANDARD RATIOS									
Motor R.P.M.	292.3	359.2	429.2	538.2	643.0	807.8	1001.7	1182.4	1478.0	1818.3
1750	268	220	186	149	126	95.8	77.8	66.2	53.3	39.4
1150	179	147	124	100	84.2	63.8	51.7	44.0	35.4	26.1
870	137	112	95.0	76.3	64.2	48.6	39.4	33.5	26.9	19.9
720	114	94.0	79.1	63.5	53.4	40.4	32.7	27.8	22.3	16.5
580	93.1	76.2	64.1	51.4	43.2	32.7	26.5	22.5	18.0	13.3
High Speed Shaft Diameter	2¾	2¾	2¾	2¾	2¾	2¾	2¼	2¼	2¼	2¼

Ratios listed are standard but intermediate ratios are available.
Ratings for intermediate ratios and speeds may be found by direct interpolation.
All units may be operated at speeds lower than the minimum shown. The selection of a reducer for a lower speed may be accomplished by multiplying the desired horsepower by 580 and dividing by the desired speed. The result will be the equivalent horsepower at 580 RPM which can be found in the above tables.

HORSEPOWER

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OUTPUT TORQUE RATING TABLES

1000 INCH POUNDS

TYPE QF–QUADRUPLE REDUCTION UNITS

The Output Torque Ratings listed in the tables below are calculated using a Service Factor of 1. See pages 6, 7 and 8 of Gear Catalog No. G-32A for information on selecting reducers.

QF 270C

	STANDARD RATIOS									
Motor R.P.M.	297.6	359.1	446.0	545.3	652.9	798.0	1005.1	1216.4	1515.9	1885.4
1750	330	332	335	337	319	321	323	324	325	313
1150	335	337	339	340	323	324	325	326	327	315
870	338	339	341	342	324	326	327	328	329	316
720	339	341	342	344	325	327	328	328	329	316
580	341	342	344	345	327	328	329	329	330	317

QF 320C

	STANDARD RATIOS									
Motor R.P.M.	297.0	359.2	432.5	541.5	667.6	802.2	969.2	1230.1	1503.3	1827.7
1750	505	509	512	516	519	521	508	511	513	483
1150	513	516	519	522	524	526	513	515	516	486
870	517	520	522	525	527	529	515	517	519	488
720	520	522	525	527	529	531	517	518	520	489
580	523	525	527	529	531	533	518	520	521	490

QF 370C

	STANDARD RATIOS									
Motor R.P.M.	297.0	353.2	434.0	538.4	646.3	805.4	994.6	1186.3	1492.0	1828.6
1750	741	747	752	758	762	767	729	732	736	688
1150	753	758	763	768	771	775	736	738	741	693
870	761	765	769	773	776	780	740	742	745	696
720	765	769	772	776	779	782	742	744	747	698
580	769	773	776	780	782	785	745	746	749	700

QF 530C

	STANDARD RATIOS									
Motor R.P.M.	291.9	359.5	430.9	542.4	657.6	808.9	973.1	1207.9	1471.9	1804.9
1750	2081	2102	2119	2139	2039	2053	2065	2077	2088	1899
1150	2121	2139	2153	2170	2066	2078	2088	2098	2107	1915
870	2145	2161	2173	2188	2082	2093	2101	2110	2118	1924
720	2159	2174	2185	2199	2092	2102	2109	2118	2125	1929
580	2174	2188	2198	2210	2102	2111	2118	2125	2132	1935

QF 600C

	STANDARD RATIOS									
Motor R.P.M.	292.3	359.2	429.2	538.2	643.0	807.8	1001.7	1182.4	1478.0	1818.3
1750	2822	2852	2876	2905	2925	2789	2809	2823	2840	2584
1150	2881	2906	2927	2950	2968	2826	2842	2854	2868	2608
870	2915	2938	2956	2977	2992	2847	2861	2872	2884	2621
720	2936	2957	2973	2993	3007	2860	2873	2882	2894	2629
580	2958	2977	2992	3010	3022	2873	2885	2894	2904	2638

TORQUE

Ratings shown are in thousands of in. lbs. at low speed shaft.
Ratings for intermediate ratios and speeds may be found by direct interpolation.
For input speeds lower than speeds shown, use torque rating for minimum speed shown in table.

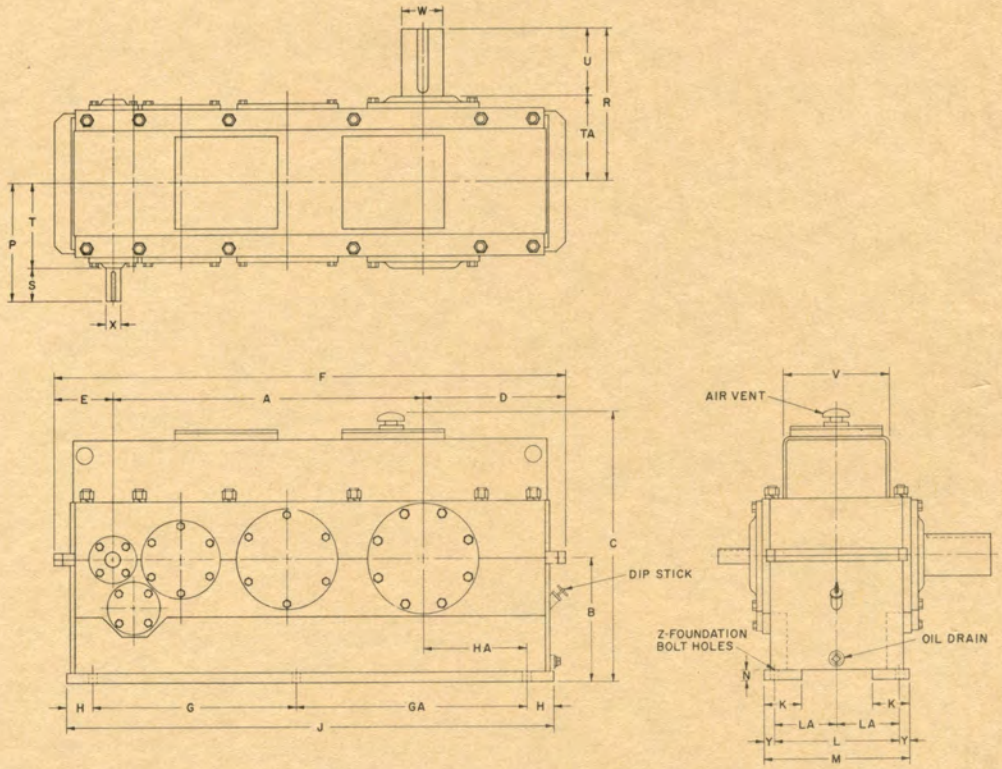
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GENERAL DIMENSIONS

TYPE QF

QUADRUPLE REDUCTION GEAR REDUCERS

FABRICATED STEEL HOUSING



Size No.	A	B	C	D	E	F	G	GA	H	HA	J	K	L	LA	M	N	P	R	S	T	TA	U	V	W*	Y	X*	Z-Bolt Holes	Approximate Oil Capacity Gallons Min. Ratio	Approximate Oil Capacity Gallons Max. Ratio	Weight
QF 270C . .	35	19	39	19¼	8¾	63	25½	25½	4	13¼	59	7	23	11½	26	1¼	17	24	41	12⅞	13⅜	10⅝	17½	5¾	1½	For High Speed Shaft Dias. See Table of H.P. Ratings on Page 12	6-1⅜	49	47	5,675
QF 320C . .	41½	21	44	21	9	71½	29¾	29¾	4½	15	68½	8	25½	12¾	28½	1¾	18¾	26	4⅝	14⅛	14⅝	11⅜	19¾	6¾	1½		6-1⅜	66	63	8,050
QF 370C . .	47½	25	50	24½	10	82	33½	33½	5½	17	78	8	28	14	32	1¾	20	29	4½	15½	16	13	21½	7¾	2		6-1⅝	103	100	11,100
QF 530C . .	66½	33	66½	32	12½	111	3@24¼	24¼	5½	25	108	9	38	19	42	2¾	29¾	39	7⅛	22⅝	22⅞	16⅛	31¼	10	2		10-1⅜	275	267	27,850
QF 600C . .	75	36	73	36	12½	123½	3@27½	27½	5¼	29¼	120½	9	40	20	44	2¾	31	42	7¾	23¼	23⅝	18⅜	32¾	11	2		10-1⅜	351	341	34,000

All dimensions are in inches.

*For Shaft Keyways, see Table of Standard Keyways Page 48 of Gear Catalog No. G-32A.

Above dimensions are not to be used for Installation.
USE CERTIFIED INSTALLATION PRINT.

OVERHUNG LOAD CAPACITIES

SLOW SPEED SHAFTS

The table below shows moderate overhung load capacities for standard Type QF Reducers. It is assumed that the external load is acting one shaft diameter out from the seal. Special Heavy Overhung Load capacity reducers are available if actual loading exceeds the tabulated values. Consult us for recommendations.

The table below does not apply for double extended slow speed shafts. Present your application to us for recommendations.

The actual load imposed on a shaft for a given condition of service may be determined by the formula on the bottom of page 6 of Gear Catalog No. G-32A. For unusual conditions or in case of doubt present your problems to us for recommendations. Overhung load capacities are figured at the highest speed shown in horsepower rating tables for each size reducer.

Unit No.	QF 270C	QF 320C	QF 370C	QF 530C	QF 600C
Overhung Capacity	25,962	34,406	44,859	90,376	101,597