

Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M



1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
9.2 (12.4HP)	114.03	591	12.28	15700	2.53	FN77	132M	79
	154.41	436	9.07	15700	3.44	FH77		65
	178.71	377	7.83	15225	3.27			
	189.27	356	7.40	15035	3.39			
	241.10	279	5.81	14225	4.81			
	16.02	5003	87.40	28865	0.86	FS97	132M	177
	17.96	4461	77.93	29040	0.95	FM97		192
	21.70	3694	64.52	29055	1.10	FN97		207
	24.50	3272	57.15	28915	1.21	FH97		167
	27.47	2917	50.96	28690	1.34			
	30.64	2616	45.69	28410	1.46			
	41.54	1929	33.70	27350	1.87			
	43.23	1911	32.38	27010	1.88		132M	
	48.47	1705	28.88	26535	2.06	FS97		182
	61.61	1341	22.72	25450	2.51	FM97		197
	80.09	1032	17.48	24170	3.24	FN97		212
	101.02	818	13.86	22985	4.12	FH97		172
	108.10	764	12.95	22160	3.05		132M	
	121.19	682	11.55	21625	4.28			
	154.04	536	9.09	20490	5.06			
	200.25	413	6.99	19250	4.96			
	22.67	3536	61.76	18250	0.81	FS87	132M	106
	39.08	2051	35.83	17465	1.02	FM87		116
	56.03	1430	24.98	17440	1.47	FN87		126
	71.39	1123	19.61	17110	1.88	FH87		101
	43.46	1901	32.21	18630	1.34		132M	
	49.28	1677	28.41	18495	1.48			
	53.97	1531	25.94	18360	1.60			
	63.36	1304	22.10	18055	1.86			
	67.55	1223	20.73	17910	1.98	FS87		111
11 (15HP)	74.92	1103	18.69	17660	2.20	FM87	132M	121
	84.58	977	16.55	17340	2.49	FN87		131
	94.85	871	14.76	17015	2.80	FH87		106
	105.80	781	13.23	16690	3.13			
	143.41	576	9.76	15725	4.27			
	174.23	474	8.04	14745	4.66		132M	
	196.70	420	7.12	14380	5.13			
	220.59	375	6.35	14030	5.57			
	44.80	1789	31.25	15700	0.84	FS77	132M	68
						FM77		69
						FN77		77
						FH77		64
	56.62	1459	24.73	15700	1.03		132M	
	65.16	1268	21.49	15700	1.18			
	84.52	978	16.56	15700	1.54			
	89.51	923	15.64	15700	1.62	FS77		69
	99.56	830	14.06	15700	1.81	FM77		71
	114.03	725	12.28	15700	2.07	FN77	160M	79
	154.41	535	9.07	15650	2.80	FH77		65
	178.71	462	7.83	14820	2.66			
	189.27	437	7.40	14650	2.76			
	241.10	343	5.81	13925	3.92			
	17.96	5334	77.93	26345	0.79	FS97	160M	188
	21.70	4416	64.52	26820	0.92	FM97		203
	24.50	3912	57.15	26935	1.02	FN97		218
	27.47	3488	50.96	26930	1.12	FH97		178
	30.64	3127	45.69	26825	1.22			
	41.54	2307	33.70	26180	1.56			
	43.23	2285	32.38	25850	1.57			



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Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	48.47	2038	28.88	25505	1.73			
	61.61	1604	22.72	24640	2.10			
	80.09	1234	17.48	23545	2.71	FS97		193
	101.02	978	13.86	22495	3.45	FM97	160M	208
	108.10	914	12.95	21605	2.55	FN97		223
	121.19	815	11.55	21135	3.58	FH97		183
	154.04	641	9.09	20100	4.24			
	200.25	493	6.99	18950	4.15			
	252.59	391	5.54	17930	5.99			
	39.08	2452	35.83	15740	0.85	FS87		117
	56.03	1710	24.98	16235	1.23	FM87	160M	127
	71.39	1342	19.61	16165	1.57	FN87		137
						FH87		112
	43.46	2273	32.21	17295	1.12			
	49.28	2005	28.41	17315	1.24			
	53.97	1830	25.94	17280	1.34			
	63.36	1559	22.10	17135	1.55			
	67.55	1462	20.73	17050	1.65			
	74.92	1319	18.69	16885	1.84	FS87		122
	84.58	1168	16.55	16655	2.08	FM87	160M	132
	94.85	1042	14.76	16405	2.34	FN87		142
	105.80	934	13.23	16140	2.62	FH87		117
	143.41	689	9.76	15320	3.57			
	174.23	567	8.04	14345	3.90			
	196.70	502	7.12	14025	4.29			
	220.59	448	6.35	13715	4.66			
	246.05	402	5.69	13405	5.03			
	56.62	1745	24.73	15700	0.86			
	65.16	1516	21.49	15700	0.99			
	84.52	1169	16.56	15700	1.28			
	89.51	1104	15.64	15700	1.36	FS77		80
	99.56	992	14.06	15700	1.51	FM77	160M	82
	114.03	866	12.28	15700	1.73	FN77		90
	154.41	640	9.07	15230	2.34	FH77		76
	178.71	553	7.83	14390	2.23			
	189.27	522	7.40	14245	2.31			
	241.10	410	5.81	13605	3.28			
15 (20HP)	27.47	4757	50.96	23000	0.82	FS97		188
	30.64	4264	45.69	23310	0.90	FM97	160L	203
	41.54	3146	33.70	23585	1.15	FN97		218
						FH97		178
	43.23	3116	32.38	23280	1.15			
	48.47	2779	28.88	23215	1.27			
	61.61	2187	22.72	22835	1.54			
	80.09	1682	17.48	22160	1.99	FS97		193
	101.02	1334	13.86	21395	2.53	FM97	160L	208
	108.10	1246	12.95	20370	1.87	FN97		223
	121.19	1112	11.55	20030	2.63	FH97		183
	154.04	875	9.09	19235	3.11			
	200.25	673	6.99	18280	3.04			
	252.59	533	5.54	17405	4.39			
	56.03	2332	24.98	13565	0.90	FS87		117
	71.39	1830	19.61	14065	1.15	FM87	160L	127
						FN87		137
						FH87		112
	43.46	3100	32.21	14325	0.82			
	49.28	2734	28.41	14700	0.91			
	53.97	2496	25.94	14895	0.98			
	63.36	2126	22.10	15100	1.14			

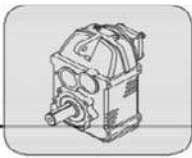
Parallel Shaft Gear Units

Selection Tables [kW] F..F../M



1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	67.55	1994	20.73	15140	1.21			
	74.92	1798	18.69	15165	1.35	FS87		122
	84.58	1593	16.55	15130	1.53	FM87		132
	94.85	1420	14.76	15045	1.72	FN87	160L	142
	105.80	1273	13.23	14925	1.92	FH87		117
	143.41	939	9.76	14420	2.62			
	174.23	773	8.04	13460	2.86			
	196.70	685	7.12	13240	3.15			
	220.59	611	6.35	13015	3.42			
	246.05	548	5.69	12780	3.69			
	333.53	404	4.20	12080	4.54			
18.5 (25HP)	41.54	3880	33.70	21315	0.93	FS97		197
						FM97	180M	212
						FN97		227
						FH97		187
	43.23	3843	32.38	21030	0.93			
	48.47	3428	28.88	21205	1.03			
	61.61	2697	22.72	21255	1.25			
	80.09	2075	17.48	20945	1.61	FS97		202
	101.02	1645	13.86	20430	2.05	FM97	180M	217
	108.10	1537	12.95	19290	1.52	FN97		232
	121.19	1371	11.55	19065	2.13	FH97		192
	154.04	1079	9.09	18475	2.52			
	200.25	830	6.99	17700	2.47			
	252.59	658	5.54	16940	3.56			
	71.39	2258	19.61	12230	0.94	FS87		126
						FM87	180M	136
						FN87		146
						FH87		121
	53.97	3078	25.94	12800	0.79			
	63.36	2622	22.10	13320	0.92			
	67.55	2460	20.73	13470	0.98			
	74.92	2218	18.69	13655	1.09			
	84.58	1964	16.55	13795	1.24	FS87		131
	94.85	1752	14.76	13855	1.39	FM87	180M	141
	105.80	1570	13.23	13855	1.56	FN87		151
	143.41	1159	9.76	13635	2.13	FH87		126
	174.23	954	8.04	12685	2.32			
	196.70	845	7.12	12555	2.55			
	220.59	753	6.35	12400	2.77			
	246.05	675	5.69	12230	2.99			
	333.53	498	4.20	11670	3.68			
22 (30HP)	48.47	4076	28.88	19200	0.86			
	61.61	3207	22.72	19680	1.05			
	80.09	2467	17.48	19730	1.36	FS97		202
	101.02	1956	13.86	19470	1.72	FM97	180L	217
	108.10	1828	12.95	18210	1.28	FN97		232
	121.19	1630	11.55	18100	1.79	FH97		192
	154.04	1283	9.09	17715	2.12			
	200.25	987	6.99	17115	2.08			
	252.59	782	5.54	16475	3.00			
	67.55	2925	20.73	11800	0.83			
	74.92	2637	18.69	12150	0.92			
	84.58	2336	16.55	12455	1.04			
	94.85	2083	14.76	12665	1.17	FS87		131
	105.80	1868	13.23	12790	1.31	FM87	180L	141
	143.41	1378	9.76	12845	1.79	FN87		151
	174.23	1134	8.04	11910	1.95	FH87		126
	196.70	1005	7.12	11865	2.15			

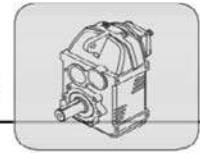


Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	220.59	896	6.35	11790	2.33			
	246.05	803	5.69	11680	2.52			
	333.53	592	4.20	11270	3.10			
30	80.09	3364	17.48	16955	0.99			
(40HP)	101.02	2667	13.86	17270	1.26	FS97		205
	108.10	2492	12.95	15740	0.94	FM97		220
	121.19	2223	11.55	15895	1.31	FN97	200L	235
	154.04	1749	9.09	15985	1.55	FH97		195
	200.25	1345	6.99	15780	1.52			
	252.59	1067	5.54	15415	2.20			



1400 Input Rpm

i	na [1/min]	Ma max [Nm]	Pe [kW]	FRa [N]	FRe [N]		m [kg]		
F37							200Nm		
128.51	11	200	0.25	4290	640	FSS37 FMS37 FNS37 FHS37 Ø16	14		
117.88	12	200	0.27	4290	650				
100.36	14	200	0.32	4290	640				
80.65	17	200	0.40	4290	630				
70.50	20	200	0.46	4290	610				
66.09	21	200	0.49	4290	610				
58.32	24	200	0.55	4290	590				
54.54	26	200	0.59	4290	460				
51.70	27	200	0.62	4290	580				
43.83	32	200	0.73	4290	450				
38.31	37	200	0.84	4290	710	FSS37 FMS37 FNS37 FHS37 Ø19	14		
35.91	39	200	0.89	4290	700		15		
31.69	44	200	1.01	4290	690		16		
28.10	50	200	1.14	4070	680		14		
24.70	57	200	1.26	3820	420	FSS37 FMS37 FNS37 FHS37 Ø19	14		
19.71	71	200	1.58	3425	480				
17.32	81	200	1.80	3210	460				
16.29	86	200	1.91	3110	450				
12.09	116	200	2.57	2660	400				
10.39	135	200	3.01	2445	410				
9.27	151	137	2.31	2405	270				
8.14	172	130	2.50	2315	280				
5.68	246	113	3.11	2075	290				
F47							400Nm		
148.71	9	400	0.43	5920	540	FSS47 FMS47 FNS47 FHS47 Ø16	19		
121.06	12	400	0.53	5920	520		21		
104.91	13	400	0.61	5920	440		22		
95.57	15	400	0.67	5920	490		19		
85.41	16	400	0.75	5920	420				
79.30	18	400	0.81	5920	740	FSS47 FMS47 FNS47 FHS47 Ø19	19		
71.21	20	400	0.90	5920	740				
67.43	21	400	0.96	5920	680				
60.83	23	400	1.06	5920	740				
55.95	25	400	1.15	5920	670				
50.24	28	400	1.28	5920	660				
42.91	33	400	1.50	5920	660				
36.06	39	385	1.72	5200	540				
32.38	43	369	1.83	4885	550				
30.66	46	361	1.90	4730	440			FSS47 FMS47 FNS47 FHS47 Ø19	19
25.44	55	336	2.12	4535	450				
24.76	57	370	2.33	4990	420				
21.75	64	371	2.66	4710	390				
20.45	68	372	2.83	4565	380				
15.19	92	374	3.83	3865	320				
13.04	107	374	4.48	3520	340				
11.26	124	243	3.36	3580	330				
9.89	142	230	3.63	3450	290				
9.30	151	225	3.77	3390	290				
6.90	203	200	4.50	3110	300				
5.93	236	188	4.94	2970	280				
4.18	335	164	6.12	2680	220				
F57							600Nm		
174.58	8	600	0.55	9200	910	FSS57 FMS57	29		
139.34	10	600	0.69	9200	980				
122.42	11	600	0.79	9200	1050				
115.11	12	600	0.84	9200	1100				
95.01	15	600	1.01	9200	1140				
85.46	16	600	1.13	9200	1160			25	



Helical Gear Units

Selection Tables [kW] F..S

1400 Input Rpm

i	na [1/min]	Ma max [Nm]	Pe [kW]	FRa [N]	FR _e [N]		m [kg]
73.40	19	600	1.31	9200	1200	FNS57 FHS57	36
51.72	27	600	1.86	9200	1160		29
64.76	22	600	1.49	9200	960		
56.90	25	600	1.69	9200	980		
39.72	35	589	2.38	9005	970		
34.11	41	572	2.69	8405	1020		
24.04	58	550	3.67	7305	970		
26.46	53	549	3.23	7585	580	FSS57 FMS57 FNS57 FHS57	30
23.31	60	551	3.69	7210	590		26
19.11	73	553	4.50	6565	620		37
							30
18.01	78	553	4.79	6370	620	FSS57 FMS57 FNS57 FHS57	32
15.55	90	555	5.56	5905	610		28
13.50	104	557	6.43	5465	650		39
12.29	114	558	7.06	5190	630		32
11.35	123	600	8.25	4145	370		28
9.31	150	550	9.22	3620	360		39
8.77	160	541	9.63	3595	350		32
7.57	185	512	10.54	3425	370		
6.57	213	485	11.51	3270	440		
5.98	234	468	12.19	3185	430		
F67							820Nm
187.70	7	820	0.70	10300	720	FSS67 FMS67 FNS67 FHS67	32
151.68	9	820	0.87	10300	820		36
133.62	10	820	0.99	10300	900		38
109.55	13	797	1.17	10300	910		30
103.23	14	791	1.23	10300	940		
89.11	16	767	1.38	10300	970		
77.36	18	748	1.55	10300	950		
70.42	20	732	1.67	10300	950		
64.95	22	722	1.79	10300	900		
57.22	24	706	1.99	10300	920		
46.91	30	680	2.33	10300	950		
44.20	32	671	2.44	10300	980		
38.16	37	653	2.75	10300	970		
33.12	42	636	3.09	10300	950		
30.15	46	626	3.33	10300	950		
28.44	49	619	3.39	10300	1000	FSS67 FMS67 FNS67 FHS67	35
18.10	77	622	5.35	10300	950		39
16.12	87	623	6.01	10300	960		41
14.46	97	625	6.73	10300	970		33
13.31	105	626	7.33	10300	940		
11.31	124	628	8.63	10090	910		
8.48	165	632	11.61	9105	880		
6.63	211	543	12.75	8215	620		
5.94	236	525	13.78	7950	630		
5.47	256	513	14.61	7750	590		
F77							1500Nm
166.80	8	1500	1.44	15700	750	FSS77 FMS77 FNS77 FHS77	58
160.23	9	1500	1.50	15700	760		59
147.56	9	1500	1.63	15700	730		67
93.90	15	1500	2.56	15700	950		54
83.63	17	1500	2.88	15700	950		
75.02	19	1500	3.21	15700	940	FSS77 FMS77 FNS77 FHS77	59
59.38	24	1500	4.05	15700	960		60
53.26	26	1500	4.53	15700	990		68
49.04	29	1500	4.92	15700	990		55
41.67	34	1500	5.77	15700	960		64
31.25	45	1500	7.71	15700	1480	FSS77 FMS77 FNS77 FHS77	65
							73
							60
24.73	57	1500	9.46	15700	1240		
21.49	65	1500	10.88	15700	1260		
16.56	85	1500	14.12	15515	1270		



1400 Input Rpm

i	na [1/min]	Ma max [Nm]	Pe [kW]	FRa [N]	FRe [N]		m [kg]
15.64	90	1500	14.94	15160	1320	FSS77	65
14.06	100	1500	16.63	14495	1330	FMS77	67
12.28	114	1500	19.00	13700	1300	FNS77	75
9.07	154	1500	25.77	11995	1270	FHS77	61
7.83	179	1230	24.51	11310	1020		
7.40	189	1207	25.44	11135	1060		
5.81	241	1346	36.08	8930	1020		
F87							3000Nm
162.37	9	3000	2.97	19800	770	FSS87	96
141.09	10	3000	3.42	19800	730	FMS87	106
						FNS87	116
						FHS87	91
108.77	13	3000	4.44	19800	800	FSS87	98
102.70	14	3000	4.69	19800	810	FMS87	108
92.34	15	3000	5.22	19800	790	FNS87	118
						FHS87	93
83.32	17	3000	5.79	19800	1100		
78.67	18	3000	6.12	19800	1120	FSS87	102
70.73	20	2940	6.68	19800	1110	FMS87	112
61.76	23	2866	7.44	19800	1200	FNS87	122
53.48	26	2092	6.28	19800	1170	FHS87	97
46.47	30	2077	7.18	19495	1130		
35.83	39	2088	9.36	17310	1090		
24.98	56	2104	13.51	14560	2370	FSS87	110
19.61	71	2117	17.32	12850	2260	FMS87	120
						FNS87	130
						FHS87	105
32.21	43	2543	12.30	16330	1160	FSS87	107
28.41	49	2486	13.63	15590	1160	FMS87	117
25.94	54	2446	14.69	15080	1140	FNS87	127
22.10	63	2420	17.08	14045	1150	FHS87	102
20.73	68	2423	18.20	13610	1110		
18.69	75	2429	20.26	12900	2230		
16.55	85	2436	22.90	12115	2170		
14.76	95	2443	25.79	11375	2110		
13.23	106	2450	28.83	10705	2050	FSS87	115
9.76	143	2469	39.32	8950	1840	FMS87	125
8.04	174	2212	42.89	7280	1710	FNS87	135
7.12	197	2161	47.23	6915	1680	FHS87	110
6.35	221	2089	51.28	6665	1670		
5.69	246	2022	55.34	6450	1650		
4.20	334	1840	68.16	5925	1580		
F97							4300Nm
170.08	8	4300	4.07	29900	590	FSS97	174
149.98	9	4300	4.61	29900	570	FMS97	189
136.95	10	4300	5.05	29900	520	FNS97	204
						FHS97	164
109.42	13	4300	6.32	29900	1530		
116.67	12	4300	5.93	29900	1550	FSS97	177
98.66	14	4300	7.01	29900	1510	FMS97	192
87.40	16	4300	7.91	29900	1490	FNS97	207
77.93	18	4218	8.71	29785	1470	FHS97	167
64.52	22	4075	10.14	27895	1270		
57.15	25	3985	11.18	26740	3710	FSS97	185
50.96	27	3900	12.29	25665	3640	FMS97	200
45.69	31	3823	13.43	24690	3660	FNS97	215
33.70	42	3616	17.19	22170	3550	FHS97	175
32.38	43	3588	17.27	21825	2460	FSS97	190
28.88	48	3514	18.98	20930	2450	FMS97	205
22.72	62	3365	23.08	19190	2430	FNS97	220
						FHS97	180
17.48	80	3350	29.84	17010	3240		
13.86	101	3369	37.94	15090	3120	FSS97	196
12.95	108	2332	28.08	16330	2710	FMS97	211
11.55	121	2917	39.41	13305	2220	FNS97	226



Helical Gear Units

Selection Tables [kW] F..S

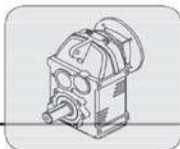
1400 Input Rpm

i	na [1/min]	Ma max [Nm]	Pe [kW]	FRa [N]	FRe [N]	 FHS97	m [kg]
9.09	154	2715	46.59	12385	2230		186
6.99	200	2049	45.67	13165	2610		
5.54	253	2339	65.91	10670	2160		



1750 Input Rpm

F37 , n _e =1750 1/min				200 Nm				實心入力軸徑
na [1/min]	Mamax [Nm]	FRa [N]	i	63	71	80	90L	Input shaft mm
 3								
14	200	4290	128.51					Ø16
15	200	4290	117.88					
17	200	4290	100.36					
22	200	4290	80.65					
25	200	4290	70.5					
26	200	4290	66.09					
30	200	4290	58.32					
32	200	4290	54.54					
34	200	4290	51.7					
40	200	4290	43.83					
46	200	4230	38.31					Ø19
49	200	4110	35.91					
55	200	3875	31.69					
62	200	3660	28.1					
 2								
71	200	3430	24.7					Ø19
89	200	3060	19.71					
101	200	2860	17.32					
107	200	2770	16.29					
145	200	2350	12.09					
168	200	2150	10.39					
189	137	2250	9.27					
215	130	2160	8.14					
308	114	1940	5.68					



Parallel Shaft Gear Units

Permitted Combinations

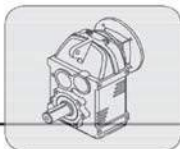
1750 Input Rpm

F47 , ne=1750 1/min							400 Nm	實心入力軸徑
na [1/min]	Mamax [Nm]	FRa [N]	i	63	71	80	90L	Input shaft mm
 3								
12	400	5920	148.71					Ø16
14	400	5920	121.06					
17	400	5920	104.91					
18	400	5920	95.57					
20	400	5920	85.41					
22	400	5920	79.30					Ø19
25	400	5920	71.21					
26	400	5920	67.43					
29	400	5920	60.83					
31	400	5920	55.95					
35	400	5920	50.24					
41	400	5710	42.91					
49	385	4705	36.06					
54	369	4555	32.38					
57	361	4480	30.66					
69	336	4245	25.44					
 2								
71	370	4480	24.76					Ø19
80	371	4175	21.75					
86	372	4025	20.45					
115	374	3380	15.19					
134	374	3065	13.04					
155	243	3355	11.26					
177	230	3230	9.89					
188	225	3175	9.30					
253	200	2910	6.90					
295	188	2780	5.93					
419	164	2505	4.18					



1750 Input Rpm

F57 , ne=1750 1/min				600 Nm						實心入力軸徑
na [1/min]	Mamax [Nm]	FRa [N]	i	63	71	80	90L	100L	112M	Input shaft mm
 3										
10	600	9200	174.58							Ø19
13	600	9200	139.34							
14	600	9200	122.42							
15	600	9200	115.11							
18	600	9200	95.01							
20	600	9200	85.46							
24	600	9200	73.4							
34	600	9175	51.72							
27	600	9200	64.76							
31	600	9200	56.9							
44	589	8170	39.72							
51	572	7685	34.11							
73	550	6600	24.04							
 2										
66	549	6920	26.46							Ø19
75	551	6485	23.31							
92	553	5850	19.11							
97	553	5665	18.01							Ø24
113	555	5225	15.55							
130	557	4820	13.5							
142	558	4570	12.29							
154	600	3555	11.35							
188	550	3405	9.31							
200	541	3330	8.77							
231	512	3195	7.57							
266	485	3065	6.57							
293	468	2990	5.98							



Parallel Shaft Gear Units

Permitted Combinations

1750 Input Rpm

F67 , ne=1750 1/min								820 Nm		實心入力軸徑
na [1/min]	Mamax [Nm]	FRa [N]	i	63	71	80	90L	100L	112M	Input shaft mm
 3										
9	820	10300	187.70							Ø19
12	820	10300	151.68							
13	820	10300	133.62							
16	797	10300	109.55							
17	791	10300	103.23							
20	767	10300	89.11							
23	748	10300	77.36							
25	732	10300	70.42							
27	722	10300	64.95							
31	706	10300	57.22							
37	680	10300	46.91							
40	671	10300	44.20							
46	653	10300	38.16							
53	636	10300	33.12							
58	626	10300	30.15							
 2										
62	619	10300	28.44							Ø24
97	622	10300	18.10							
109	623	10300	16.12							
121	625	10175	14.46							
131	626	9885	13.31							
155	628	9330	11.31							
206	632	8410	8.48							
264	543	7565	6.63							
295	525	7320	5.94							
320	513	7140	5.47							

Parallel Shaft Gear Units

Permitted Combinations



1750 Input Rpm

F77 , ne=1750 1/min				1500 Nm						實心入力軸徑
na [1/min]	Mamax [Nm]	FRa [N]	i	80	90L	100L	112M	132S	132M	Input shaft mm
 3										
10	1500	15700	166.80							Ø19
11	1500	15700	160.23							
12	1500	15700	147.56							
19	1500	15700	93.90							
21	1500	15700	83.63							
23	1500	15700	75.02							
29	1500	15700	59.38							Ø24
33	1500	15700	53.26							
36	1500	15700	49.04							
42	1500	15700	41.67							
56	1500	15700	31.25							Ø38
 2										
71	1500	15700	24.73							Ø38
81	1500	15700	21.49							
106	1500	14135	16.56							
112	1500	13805	15.64							
124	1500	13185	14.06							
143	1500	12440	12.28							
193	1500	10845	9.07							
223	1230	10240	7.83							
237	1207	10085	7.40							
263	1174	9740	6.65							
301	1346	8355	5.81							



Parallel Shaft Gear Units

Permitted Combinations

1750 Input Rpm

F87 , ne=1750 1/min										3000 Nm	實心入力軸徑
na [1/min]	Mamax [Nm]	FRa [N]	i	90L	100L	112M	132S	132M	160M	160L	Input shaft mm
 3											
11	3000	19800	162.37								Ø19
12	3000	19800	141.09								
16	3000	19800	108.77								
17	3000	19800	102.70								Ø28
19	3000	19800	92.34								
21	3000	19800	83.32								
22	3000	19800	78.67								Ø38
25	2940	19595	70.73								
28	2866	18680	61.76								
33	2092	18730	53.48								
38	2077	17655	46.47								
49	2088	15605	35.83								
70	2104	13035	24.98								Ø42
89	2117	11430	19.61								
 2											
54	2543	14680	32.21								Ø38
62	2486	14005	28.41								
67	2446	13535	25.94								
79	2420	12570	22.10								
84	2423	12165	20.73								
94	2429	11500	18.69								Ø42
106	2436	10765	16.55								
119	2443	10070	14.76								
132	2450	9440	13.23								
179	2469	7795	9.76								
218	2212	6195	8.04								
246	2161	5865	7.12								
276	2089	5650	6.35								
308	2022	5470	5.69								
417	1840	5030	4.20								

Parallel Shaft Gear Units

Permitted Combinations



1750 Input Rpm

F97 , ne=1750 1/min				4300 Nm							實心入力軸徑
na [1/min]	Mamax [Nm]	FRa [N]	i	100L	112M	132S	132M	160M	160L	180MC	Input shaft mm
 3											
10	4300	29900	170.08								Ø28
12	4300	29900	149.98								
13	4300	29900	136.95								
16	4300	29900	109.42								Ø38
15	4300	29900	116.67								
18	4300	29690	98.66								
20	4300	28170	87.40								
22	4218	27010	77.93								
27	4075	25270	64.52								
31	3985	24215	57.15								Ø42
34	3900	23220	50.96								
38	3823	22325	45.69								
52	3616	20010	33.70								
 2											
54	3588	19690	32.38								Ø42
61	3514	18875	28.88								
77	3365	17275	22.72								
100	3350	15240	17.48								Ø48
126	3369	13435	13.86								
135	2332	14715	12.95								
151	2917	11740	11.55								
193	2715	10930	9.09								
250	2049	11820	6.99								
316	2339	9415	5.54								



Parallel Shaft Gear Units

Permitted Combinations

1750 Input Rpm

F37R17 , ne=1750 1/min				200 Nm			
na [1/min]	Mamax [Nm]	FRa [N]	i	56	63	71	80
 3  3							
0.22	200	4290	8021				
0.25	200	4290	6901				
0.29	200	4290	5950				
0.32	200	4290	5538				
0.35	200	4290	5013				
0.39	200	4290	4537				
0.45	200	4290	3911				
0.51	200	4290	3452				
0.58	200	4290	3001				
0.67	200	4290	2616				
0.75	200	4290	2323				
0.90	200	4290	1939				
1.02	200	4290	1711				
1.15	200	4290	1520				
 2  3							
0.89	200	4290	1973				
1.03	200	4290	1697				
1.20	200	4290	1463				
1.29	200	4290	1354				
1.56	200	4290	1123				
1.71	200	4290	1026				
1.79	200	4290	979				
2.01	200	4290	869				
2.41	200	4290	725				
2.52	200	4290	693				
3.05	200	4290	573				
3.66	200	4290	478				
4.11	200	4290	426				
4.80	200	4290	365				
 3  2							
1.45	200	4290	1211				
1.66	200	4290	1057				
1.96	200	4290	891				
2.16	200	4290	810				
2.48	200	4290	707				
2.92	200	4290	600				
3.18	200	4290	549				



1750 Input Rpm

F47R17 , ne=1750 1/min							400 Nm
na [1/min]	Mamax [Nm]	FRa [N]	i	56	63	71	80
 3  3							
0.15	400	5920	11882				
0.17	400	5920	10223				
0.20	400	5920	8814				
0.24	400	5920	7426				
0.27	400	5920	6555				
0.31	400	5920	5651				
0.35	400	5920	5054				
0.40	400	5920	4368				
0.47	400	5920	3690				
0.52	400	5920	3356				
0.60	400	5920	2930				
0.67	400	5920	2598				
0.75	400	5920	2330				
0.84	400	5920	2090				
 2  3							
0.89	400	5920	1977				
1.03	400	5920	1701				
1.17	400	5920	1495				
1.25	400	5920	1406				
1.44	400	5920	1212				
1.67	400	5920	1045				
1.88	400	5920	930				
2.16	400	5920	810				
2.43	400	5920	720				
2.85	400	5920	613				
 3  2							
0.96	400	5920	1818				
1.11	400	5920	1575				
1.32	400	5920	1327				
1.45	400	5920	1207				
1.66	400	5920	1054				
1.91	400	5920	914				
2.19	400	5920	797				
2.47	400	5920	708				
2.76	400	5920	635				
3.22	400	5920	543				



Parallel Shaft Gear Units

Permitted Combinations

1750 Input Rpm

F57R37 , ne=1750 1/min							600 Nm
na [1/min]	Mamax [Nm]	FRa [N]	i	63	71	80	90
 3  3							
0.12	600	9200	14610				
0.13	600	9200	13392				
0.14	600	9200	12757				
0.16	600	9200	11211				
0.18	600	9200	9770				
0.20	600	9200	8716				
0.22	600	9200	7837				
0.26	600	9200	6830				
0.29	600	9200	6017				
0.32	600	9200	5391				
0.38	600	9200	4617				
0.43	600	9200	4024				
0.49	600	9200	3573				
0.55	600	9200	3171				
0.61	600	9200	2856				
0.71	600	9200	2465				
0.79	600	9200	2217				
0.92	600	9200	1899				
1.04	600	9200	1680				
1.19	600	9200	1476				
1.42	600	9200	1236				
 2  3							
0.63	600	9200	2780				
0.66	600	9200	2661				
0.77	600	9200	2282				
0.86	600	9200	2030				
0.98	600	9200	1786				
1.09	600	9200	1611				
1.23	600	9200	1424				
1.41	600	9200	1241				
1.65	600	9200	1061				
1.87	600	9200	934				
2.08	600	9200	842				
2.28	600	9200	767				
2.62	600	9200	668				
3.22	600	9200	543				
3.63	600	9200	483				



1750 Input Rpm

F67R37 , ne=1750 1/min				820 Nm			
na [1/min]	Mamax [Nm]	FRa [N]	i	63	71	80	90
 3  3							
0.09	820	10300	18485				
0.12	820	10300	15177				
0.13	820	10300	13084				
0.16	820	10300	11025				
0.17	820	10300	10040				
0.20	820	10300	8750				
0.22	820	10300	7914				
0.25	820	10300	7087				
0.29	820	10300	5942				
0.33	820	10300	5355				
0.37	820	10300	4667				
0.42	820	10300	4138				
0.49	820	10300	3575				
0.56	820	10300	3116				
0.63	820	10300	2767				
0.71	820	10300	2466				
 2  3							
0.52	820	10300	3394				
0.61	820	10300	2859				
0.67	820	10300	2604				
0.77	820	10300	2269				
0.80	820	10300	2181				
0.88	820	10300	1986				
1.05	820	10300	1659				
1.21	820	10300	1446				
1.40	820	10300	1252				
1.53	820	10300	1140				
1.76	820	10300	994				
1.98	820	10300	883				
2.41	820	10300	727				
2.76	820	10300	633				
3.28	820	10300	533				
 3  2							
0.85	820	10300	2059				
0.92	820	10300	1897				
1.08	820	10300	1626				



Parallel Shaft Gear Units

Permitted Combinations

1750 Input Rpm

F77R37 , ne=1400 1/min				1500 Nm			
na [1/min]	Mamax [Nm]	FRa [N]	i	63	71	80	90
 3  3							
0.09	1500	15700	19110				
0.10	1500	15700	17598				
0.11	1500	15700	16102				
0.12	1500	15700	14828				
0.13	1500	15700	13504				
0.15	1500	15700	11768				
0.15	1500	15700	11310				
0.17	1500	15700	10300				
0.18	1500	15700	9747				
0.20	1500	15700	8605				
0.23	1500	15700	7499				
0.27	1500	15700	6563				
0.31	1500	15700	5720				
0.34	1500	15700	5098				
0.38	1500	15700	4563				
0.46	1500	15700	3768				
0.52	1500	15700	3359				
0.58	1500	15700	3006				
0.67	1500	15700	2619				
0.75	1500	15700	2326				
0.84	1500	15700	2079				
 2  3							
0.51	1500	15700	3420				
0.59	1500	15700	2949				
0.68	1500	15700	2563				
0.77	1500	15700	2263				
0.89	1500	15700	1972				
1.01	1500	15700	1726				
1.06	1500	15700	1647				
1.22	1500	15700	1432				
1.31	1500	15700	1336				
1.51	1500	15700	1161				
1.62	1500	15700	1078				
1.96	1500	15700	894				
 3  2							
1.04	1500	15700	1682				
1.17	1500	15700	1499				



1750 Input Rpm

F87R57 , ne=1400 1/min									3000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	i	63	71	80	90	100L	112M
 3  3									
0.08	3000	19800	23147						
0.09	3000	19800	19942						
0.10	3000	19800	18215						
0.11	3000	19800	15922						
0.12	3000	19800	14034						
0.14	3000	19800	12267						
0.17	3000	19800	10452						
0.19	3000	19800	9392						
0.21	3000	19800	8180						
0.25	3000	19800	7045						
0.28	3000	19800	6274						
0.32	3000	19800	5553						
0.35	3000	19800	4989						
0.41	3000	19800	4258						
0.47	3000	19800	3729						
 2  3									
0.37	3000	19800	4750						
0.41	3000	19800	4261						
0.46	3000	19800	3796						
0.51	3000	19800	3421						
0.55	3000	19800	3209						
0.61	3000	19800	2853						
0.68	3000	19800	2567						
0.82	3000	19800	2140						
0.92	3000	19800	1907						
1.02	3000	19800	1710						
1.22	3000	19800	1433						
1.40	3000	19800	1249						
1.55	3000	19800	1126						
1.77	3000	19800	990						
1.97	3000	19800	890						
2.23	3000	19800	785						
2.29	3000	19800	766						
 3  2									
0.53	3000	19800	3322						
0.59	3000	19800	2957						
0.67	3000	19800	2596						

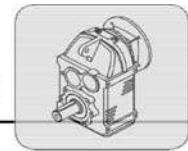


Parallel Shaft Gear Units

Permitted Combinations

1750 Input Rpm

F97R57 , $n_e=1750$ 1/min									4300 Nm
n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	i	63	71	80	90	100L	112M
 3  3									
0.06	4300	29900	27882						
0.07	4300	29900	24021						
0.08	4300	29900	21182						
0.10	4300	29900	17946						
0.11	4300	29900	15461						
0.13	4300	29900	13932						
0.14	4300	29900	12345						
0.16	4300	29900	10870						
0.18	4300	29900	9601						
0.21	4300	29900	8340						
0.24	4300	29900	7207						
0.27	4300	29900	6417						
0.31	4300	29900	5648						
0.35	4300	29900	5047						
0.40	4300	29900	4366						
 2  3									
0.30	4300	29900	5927						
0.33	4300	29900	5282						
0.38	4300	29900	4580						
0.43	4300	29900	4081						
0.53	4300	29900	3296						
0.59	4300	29900	2977						
0.68	4300	29900	2580						
0.76	4300	29900	2299						
0.90	4300	29900	1950						
1.01	4300	29900	1738						
1.19	4300	29900	1473						
1.31	4300	29900	1333						
1.43	4300	29900	1226						
1.67	4300	29900	1049						
 3  2									
4.62	4300	29900	3786						
5.06	4300	29900	3458						
5.95	4300	29900	2943						
6.80	4300	29900	2575						
7.63	4300	29900	2292						
8.90	4300	29900	1967						



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.12 (0.16HP)	0.27	3499	6417	29900	1.23	FS97 R57	63	187
	0.31	3079	5648	29900	1.40	FM97 R57		202
	0.35	2752	5047	29900	1.56	FN97 R57		217
	0.40	2380	4366	29900	1.81	FH97 R57		177
	0.43	2294	4081	29900	1.87	FS97 R57	63	182
	0.53	1853	3296	29900	2.32	FM97 R57		197
	0.59	1673	2977	29900	2.57	FN97 R57		212
	0.68	1450	2580	29900	2.97	FH97 R57		172
	0.41	2322	4258	19800	1.29	FS87 R57	63	117
	0.47	2033	3729	19800	1.48	FM87 R57		127
						FN87 R57		137
						FH87 R57		112
	0.55	1804	3209	19800	1.66	FS87 R57 FM87 R57 FN87 R57 FH87 R57	63	112
	0.61	1604	2853	19800	1.87			122
	0.68	1443	2567	19800	2.08			132
	0.82	1203	2140	19800	2.49			107
	0.92	1072	1907	19800	2.80			
	1.02	961	1710	19800	3.12			
	1.22	805	1433	19800	3.73			
	1.40	702	1249	19800	4.27			
	1.55	633	1126	19800	4.74			
	0.67	1428	2619	15700	1.05	FS77 R37	63	66
	0.75	1268	2326	15700	1.18	FM77 R37		68
	0.84	1133	2079	15700	1.32	FN77 R37		76
						FH77 R37		62
	1.01	970	1726	15700	1.55	FS77 R37 FM77 R37 FN77 R37 FH77 R37	63	65
	1.06	926	1647	15700	1.62			66
	1.22	805	1432	15700	1.86			74
	1.31	751	1336	15700	2.00			61
	1.51	653	1161	15700	2.30			
	1.62	606	1078	15700	2.48			
	1.96	503	894	15700	2.98			
	1.22	806	1433	10300	1.02	FS67 R37 FM67 R37 FN67 R37 FH67 R37	63	42
	1.36	723	1287	10300	1.13			46
	1.57	625	1112	10300	1.31			48
	1.73	569	1012	10300	1.44			40
	2.06	477	848	10300	1.72			
	2.34	420	746	10300	1.95			
	2.69	366	651	10300	2.24			
	3.06	322	572	10300	2.55			
	3.41	288	513	10300	2.84	FS57 R37 FM57 R37 FN57 R37 FH57 R37	63	39
	4.00	246	437	10300	3.34			45
	2.06	477	848	9200	1.26			46
	2.38	413	735	9200	1.45			39
	2.69	365	650	9200	1.64			
	3.17	310	551	9200	1.94			
	3.54	278	494	9200	2.16			
	3.92	251	446	9200	2.39			
	4.14	245	423	9200	2.45	FS57 R37 FM57 R37 FN57 R37 FH57 R37	63	38
	4.59	221	382	9200	2.71			44
	5.29	192	331	9200	3.13			45
	5.81	175	301	9200	3.44			38
	6.59	154	265	9200	3.90			
	3.22	305	543	5920	1.31	FS47 R17 FM47 R17 FN47 R17 FH47 R17	63	25
	3.67	268	476	5920	1.49			27
	4.20	234	417	5920	1.71			28
								25
	4.71	215	372	5920	1.86			25
	5.36	189	327	5920	2.11			27

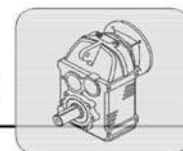


Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	5.70	178	307	5920	2.25	FN47 R17	63	28
	6.76	150	259	5920	2.67	FH47 R17		25
	5.35	184	327	4290	1.09	FS37 R17		20
	6.41	154	273	4290	1.30	FM37 R17	63	21
	7.41	133	236	4290	1.51	FN37 R17		22
	7.90	125	222	4290	1.61	FH37 R17		20
	5.60	181	313	4290	1.10			
	5.91	172	296	4290	1.17	FS37 R17		20
	7.05	144	248	4290	1.39	FM37 R17	63	21
	7.98	127	219	4290	1.57	FN37 R17		22
	9.52	107	184	4290	1.88	FH37 R17		20
	10.70	95	164	4290	2.11			
	10.02	104	174.58	9200	5.75	FS57		29
						FM57	63	25
						FN57		36
						FH57		29
	11.77	89	148.71	5920	4.50	FS47		20
	14.46	72	121.06	5920	5.53	FM47	63	22
						FN47		23
						FH47		20
	13.62	77	128.51	4290	2.61			
	14.85	70	117.88	4290	2.84	FS37		15
	17.44	60	100.36	4290	3.33	FM37	63	16
	21.70	48	80.65	4290	4.15	FN37		17
	24.82	42	70.50	4290	4.76	FH37		15
	26.48	39	66.09	4290	5.07			
	30.01	35	58.32	4290	5.74			
0.18 (0.25HP)	0.40	3571	4366	29900	1.20	FS97 R57		187
						FM97 R57	63	202
						FN97 R57		217
						FH97 R57		177
	0.43	3441	4081	29900	1.25			
	0.53	2779	3296	29900	1.55			
	0.59	2510	2977	29900	1.71			
	0.68	2175	2580	29900	1.98	FS97 R57		182
	0.76	1938	2299	29900	2.22	FM97 R57	63	197
	0.90	1644	1950	29900	2.62	FN97 R57		212
	1.01	1465	1738	29900	2.93	FH97 R57		172
	1.19	1242	1473	29900	3.46			
	1.31	1124	1333	29900	3.83			
	1.43	1034	1226	29900	4.16			
	0.67	2188	2596	19800	1.37			
	0.81	1833	2174	19800	1.64			
	0.90	1631	1935	19800	1.84			
	1.01	1463	1735	19800	2.05	FS87 R57		117
	1.18	1251	1484	19800	2.40	FM87 R57	63	127
	1.35	1091	1294	19800	2.75	FN87 R57		137
	1.50	982	1164	19800	3.06	FH87 R57		112
	1.64	897	1064	19800	3.34			
	1.82	810	961	19800	3.70			
	2.14	688	816	19800	4.36			
	1.17	1264	1499	15700	1.19			
	1.30	1131	1342	15700	1.33			
	1.46	1012	1201	15700	1.48	FS77 R37		66
	1.65	896	1062	15700	1.67	FM77 R37	63	68
	1.99	742	880	15700	2.02	FN77 R37		76
	2.19	673	799	15700	2.23	FH77 R37		62
	2.46	600	712	15700	2.50			
	2.93	503	596	15700	2.98			



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
2.06	715	848	10300	1.15				
2.34	629	746	10300	1.30		FS67 R37		42
2.69	548	651	10300	1.50		FM67 R37		46
3.06	483	572	10300	1.70		FN67 R37	63	48
3.41	433	513	10300	1.89		FH67 R37		40
4.00	369	437	10300	2.22				
4.58	322	382	10300	2.54				
3.44	442	509	10300	1.85				
3.94	386	444	10300	2.12		FS67 R37		41
4.37	348	400	10300	2.36		FM67 R37		45
5.24	290	334	10300	2.83		FN67 R37	63	47
6.13	248	285	10300	3.30		FH67 R37		39
7.39	206	237	10300	3.98				
9.13	167	192	10300	4.92				
3.17	465	551	9200	1.29		FS57 R37		39
3.54	417	494	9200	1.44		FM57 R37		45
3.92	376	446	9200	1.60		FN57 R37	63	46
4.56	324	384	9200	1.85		FH57 R37		39
5.17	286	339	9200	2.10				
4.14	367	423	9200	1.63				
4.59	332	382	9200	1.81		FS57 R37		38
5.29	288	331	9200	2.09		FM57 R37		44
5.81	262	301	9200	2.29		FN57 R37	63	45
6.59	231	265	9200	2.60		FH57 R37		38
7.78	196	225	9200	3.07				
8.61	177	203	9200	3.40				
4.68	315	374	5920	1.27		FS47 R17		25
5.38	274	325	5920	1.46		FM47 R17		27
6.07	243	288	5920	1.65		FN47 R17	63	28
7.10	208	247	5920	1.92		FH47 R17		25
5.36	284	327	5920	1.41				
5.70	267	307	5920	1.50		FS47 R17		25
6.76	225	259	5920	1.78		FM47 R17		27
8.01	190	218	5920	2.11		FN47 R17	63	28
9.09	167	192	5920	2.39		FH47 R17		25
10.36	147	169	5920	2.72				
9.52	160	184	4290	1.25		FS37 R17		20
10.70	142	164	4290	1.41		FM37 R17		21
11.93	128	147	4290	1.57		FN37 R17	63	22
13.57	112	129	4290	1.78		FH37 R17		20
9.32	168	187.70	10300	4.87		FS67		32
						FM67	63	36
						FN67		38
						FH67		30
10.02	156	174.58	9200	3.83		FS57		29
12.56	125	139.34	9200	4.80		FM57		25
14.30	110	122.42	9200	5.47		FN57	63	36
15.20	103	115.11	9200	5.81		FH57		29
11.77	133	148.71	5920	3.00				
14.46	108	121.06	5920	3.69		FS47		20
16.68	94	104.91	5920	4.26		FM47		22
18.31	86	95.57	5920	4.68		FN47	63	23
20.49	77	85.41	5920	5.23		FH47		20
22.07	71	79.30	5920	5.62				
13.62	115	128.51	4290	1.74				
14.85	106	117.88	4290	1.89				
17.44	90	100.36	4290	2.22				
21.70	72	80.65	4290	2.77		FS37		15
24.82	63	70.50	4290	3.17		FM37		16

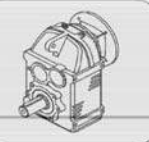


Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	26.48	59	66.09	4290	3.38	FN37	63	17
	30.01	52	58.32	4290	3.83	FH37		15
	32.09	49	54.54	4290	4.08			
	33.85	46	51.70	4290	4.31			
	39.93	39	43.83	4290	5.08			
	45.68	34	38.31	4290	5.82			
0.25 (0.34HP)	0.59	3446	2943	29900	1.25			
	0.68	3016	2575	29900	1.43			
	0.76	2684	2292	29900	1.60	FS97 R57		187
	0.89	2303	1967	29900	1.87	FM97 R57		202
	1.01	2022	1727	29900	2.13	FN97 R57	71	217
	1.11	1847	1578	29900	2.33	FH97 R57		177
	1.30	1572	1343	29900	2.74			
	1.54	1330	1136	29900	3.23			
	1.74	1180	1008	29900	3.64			
	0.90	2265	1935	19800	1.32			
	1.01	2031	1735	19800	1.48			
	1.18	1737	1484	19800	1.73	FS87 R57		117
	1.35	1515	1294	19800	1.98	FM87 R57		127
	1.50	1363	1164	19800	2.20	FN87 R57	71	137
	1.64	1246	1064	19800	2.41	FH87 R57		112
	1.82	1125	961	19800	2.67			
	2.14	956	816	19800	3.14			
	2.47	829	708	19800	3.62			
	1.65	1244	1062	15700	1.21			
	1.99	1030	880	15700	1.46			
	2.19	935	799	15700	1.60	FS77 R37		66
	2.46	834	712	15700	1.80	FM77 R37	71	68
	2.93	698	596	15700	2.15	FN77 R37		76
	3.23	633	541	15700	2.37	FH77 R37		62
	3.63	565	482	15700	2.66			
	4.20	488	416	15700	3.08			
	3.06	670	572	10300	1.22	FS67 R37		42
	3.41	601	513	10300	1.36	FM67 R37	71	46
	4.00	512	437	10300	1.60	FN67 R37		48
						FH67 R37		40
	3.44	615	509	10300	1.33	FS67 R37		41
	3.94	536	444	10300	1.53	FM67 R37	71	45
	4.37	483	400	10300	1.70	FN67 R37		47
	5.24	403	334	10300	2.03	FH67 R37		39
	6.13	345	285	10300	2.38			
	7.39	286	237	10300	2.87			
	4.56	450	384	9200	1.33	FS57 R37		39
	5.17	397	339	9200	1.51	FM57 R37	71	45
	6.92	296	253	9200	2.03	FN57 R37		46
						FH57 R37		39
	4.59	461	382	9200	1.30			
	5.29	399	331	9200	1.50	FS57 R37		38
	5.81	364	301	9200	1.65	FM57 R37	71	44
	6.59	320	265	9200	1.87	FN57 R37		45
	7.78	272	225	9200	2.21	FH57 R37		38
	8.61	245	203	9200	2.45			
	9.92	213	176	9200	2.82			
	7.10	289	247	5920	1.39	FS47 R17		25
	8.17	251	214	5920	1.59	FM47 R17	71	27
	9.24	222	189	5920	1.80	FN47 R17		28
	10.07	203	174	5920	1.97	FH47 R17		25
	6.76	313	259	5920	1.28			
	8.01	264	218	5920	1.52	FS47 R17		25



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	9.09	232	192	5920	1.72	FM47 R17	71	27
	10.36	204	169	5920	1.96	FN47 R17		28
	11.78	179	149	5920	2.23	FH47 R17		25
	13.38	158	131	5920	2.53			
	11.93	177	147	4290	1.13	FS37 R17		20
	13.57	156	129	4290	1.28	FM37 R17		21
	14.94	141	117	4290	1.41	FN37 R17	71	22
	17.78	119	98	4290	1.68	FH37 R17		20
	20.24	104	86	4290	1.92			
	9.32	234	188	10300	3.51	FS67		32
	11.54	189	152	10300	4.34	FM67	71	36
	13.10	166	134	10300	4.93	FN67		38
	15.97	136	110	10300	5.84	FH67		30
	10.02	217	174.58	9200	2.76	FS57		29
	12.56	173	139.34	9200	3.46	FM57	71	25
	14.30	152	122.42	9200	3.94	FN57		36
	15.20	143	115.11	9200	4.19	FH57		29
	18.42	118	95.01	9200	5.06			
	20.48	106	85.46	9200	5.63			
	11.77	185	148.71	5920	2.16			
	14.46	151	121.06	5920	2.66			
	16.68	131	104.91	5920	3.06			
	18.31	119	95.57	5920	3.37	FS47		20
	20.49	106	85.41	5920	3.77	FM47	71	22
	22.07	99	79.30	5920	4.05	FN47		23
	24.57	89	71.21	5920	4.51	FH47		20
	25.95	84	67.43	5920	4.78			
	28.77	76	60.83	5920	5.28			
	31.28	70	55.95	5920	5.74			
	13.62	160	128.51	4290	1.25			
	14.85	147	117.88	4290	1.36			
	17.44	125	100.36	4290	1.60			
	21.70	100	80.65	4290	1.99			
	24.82	88	70.50	4290	2.28			
	26.48	82	66.09	4290	2.43	FS37		15
	30.01	73	58.32	4290	2.76	FM37	71	16
	32.09	68	54.54	4290	2.94	FN37		17
	33.85	64	51.70	4290	3.10	FH37		15
	39.93	55	43.83	4290	3.66			
	45.68	48	38.31	4290	4.19			
	48.73	45	35.91	4290	4.47			
	55.22	39	31.69	4290	5.06			
	62.29	35	28.10	4290	5.70			
0.37 (0.5HP)	0.89	3409	1967	29900	1.26	FS97 R57		187
	1.01	2993	1727	29900	1.44	FM97 R57		202
	1.11	2734	1578	29900	1.57	FN97 R57	71	217
	1.30	2327	1343	29900	1.85	FH97 R57		177
	1.54	1969	1136	29900	2.18			
	1.74	1747	1008	29900	2.46			
	1.95	1555	897	29900	2.76			
	1.35	2243	1294	19800	1.34			
	1.50	2018	1164	19800	1.49			
	1.64	1844	1064	19800	1.63	FS87 R57		117
	1.82	1665	961	19800	1.80	FM87 R57		127
	2.14	1414	816	19800	2.12	FN87 R57	71	137
	2.47	1227	708	19800	2.44	FH87 R57		112
	2.75	1103	636	19800	2.72			
	3.22	941	543	19800	3.19			
	3.59	846	488	19800	3.55			



Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
2.19	1384	799	15700	1.08				
2.46	1234	712	15700	1.22				
2.93	1034	596	15700	1.45		FS77 R37		66
3.23	938	541	15700	1.60		FM77 R37	71	68
3.63	836	482	15700	1.79		FN77 R37		76
4.20	722	416	15700	2.08		FH77 R37		62
4.78	634	366	15700	2.37				
5.59	543	313	15700	2.76				
4.58	662	382	10300	1.24		FS67 R37		42
5.27	575	332	10300	1.43		FM67 R37	71	46
5.78	524	303	10300	1.56		FN67 R37		48
6.81	445	257	10300	1.84		FH67 R37		40
7.65	397	229	10300	2.07				
6.92	438	253	9200	1.37		FS57 R37		39
8.44	359	207	9200	1.67		FM57 R37	71	45
9.00	337	194	9200	1.78		FN57 R37		46
						FH57 R37		39
6.59	474	265	9200	1.27		FS57 R37		38
7.78	402	225	9200	1.49		FM57 R37	71	44
8.61	363	203	9200	1.65		FN57 R37		45
9.92	315	176	9200	1.90		FH57 R37		38
11.48	272	152	9200	2.20				
13.05	240	134	9200	2.50				
10.36	302	169	5920	1.32		FS47 R17		25
11.78	265	149	5920	1.51		FM47 R17	71	27
13.38	234	131	5920	1.71		FN47 R17		28
						FH47 R17		25
10.49	307	166.80	15700	4.88		FS77		57
10.92	295	160.23	15700	5.08		FM77	71	58
11.86	272	147.56	15700	5.52		FN77		66
						FH77		53
9.32	346	187.70	10300	2.37				
11.54	279	151.68	10300	2.93		FS67		32
13.10	246	133.62	10300	3.33		FM67	71	36
15.97	202	109.55	10300	3.95		FN67		38
16.95	190	103.23	10300	4.16		FH67		30
19.64	164	89.11	10300	4.67				
22.62	142	77.36	10300	5.25				
24.85	130	70.42	10300	5.63				
10.02	322	174.58	9200	1.86				
12.56	257	139.34	9200	2.34				
14.30	225	122.42	9200	2.66				
15.20	212	115.11	9200	2.83		FS57		29
18.42	175	95.01	9200	3.42		FM57	71	25
20.48	157	85.46	9200	3.80		FN57		36
23.84	135	73.40	9200	4.44		FH57		29
33.84	95	51.72	9200	6.28				
27.02	119	64.76	9200	5.02				
30.76	105	56.90	9200	5.71				
11.77	274	148.71	5920	1.46				
14.46	223	121.06	5920	1.79				
16.68	193	104.91	5920	2.07				
18.31	176	95.57	5920	2.28				
20.49	157	85.41	5920	2.54		FS47		20
22.07	146	79.30	5920	2.74		FM47	71	22
24.57	131	71.21	5920	3.05		FN47		23
25.95	124	67.43	5920	3.23		FH47		20
28.77	112	60.83	5920	3.57				
31.28	103	55.95	5920	3.88				



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	34.83	93	50.24	5920	4.33			
	40.78	79	42.91	5920	5.06			
	48.53	66	36.06	5920	5.79			
	13.62	237	128.51	4290	0.85			
	14.85	217	117.88	4290	0.92			
	17.44	185	100.36	4290	1.08			
	21.70	149	80.65	4290	1.35			
	24.82	130	70.50	4290	1.54			
	26.48	122	66.09	4290	1.64	FS37	71	15
	30.01	107	58.32	4290	1.86	FM37		16
	32.09	100	54.54	4290	1.98	FN37		17
	33.85	95	51.70	4290	2.10	FH37		15
	39.93	81	43.83	4290	2.47			
	45.68	71	38.31	4290	2.83			
	48.73	66	35.91	4290	3.02			
	55.22	58	31.69	4290	3.42			
	62.29	52	28.10	4290	3.85			
	70.85	47	24.70	4290	4.26	FS37		15
	88.77	37	19.71	4290	5.34	FM37	71	16
						FN37		17
						FH37		15
0.55 (0.74HP)	1.30	3459	1343	29900	1.24			
	1.54	2926	1136	29900	1.47			
	1.74	2596	1008	29900	1.66			
	1.95	2312	897	29900	1.86	FS97 R57		188
	2.32	1942	754	29900	2.21	FM97 R57	80	203
	2.58	1750	679	29900	2.46	FN97 R57		218
	2.90	1552	603	29900	2.77	FH97 R57		178
	3.29	1371	532	29900	3.14			
	3.71	1217	472	29900	3.53			
	4.38	1029	400	29900	4.18			
	4.94	913	355	29900	4.71			
	1.82	2475	961	19800	1.21			
	2.14	2102	816	19800	1.43	FS87 R57		118
	2.47	1824	708	19800	1.64	FM87 R57	80	128
	2.75	1639	636	19800	1.83	FN87 R57		138
	3.22	1399	543	19800	2.14	FH87 R57		113
	3.59	1257	488	19800	2.39			
	4.74	950	369	19800	3.16			
	3.63	1242	482	15700	1.21	FS77 R37		68
	4.20	1073	416	15700	1.40	FM77 R37	80	70
	4.78	943	366	15700	1.59	FN77 R37		78
	5.59	807	313	15700	1.86	FH77 R37		64
	6.81	662	257	10300	1.24	FS67 R37		44
	7.65	589	229	10300	1.39	FM67 R37	80	48
	8.61	524	203	10300	1.57	FN67 R37		50
	10.08	447	174	10300	1.83	FH67 R37		42
	10.49	457	166.80	15700	3.28	FS77		59
	10.92	439	160.23	15700	3.42	FM77	80	60
	11.86	404	147.56	15700	3.71	FN77		68
	18.64	257	93.90	15700	5.83	FH77		55
	9.32	514	187.70	10300	1.59			
	11.54	415	151.68	10300	1.97			
	13.10	366	133.62	10300	2.24			
	15.97	300	109.55	10300	2.65			
	16.95	283	103.23	10300	2.80	FS67		34
	19.64	244	89.11	10300	3.14	FM67	80	38
	22.62	212	77.36	10300	3.53	FN67		40
	24.85	193	70.42	10300	3.79	FH67		32



Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
26.94	178	64.95	10300	4.07				
30.59	157	57.22	10300	4.51				
37.31	128	46.91	10300	5.29				
39.59	121	44.20	10300	5.55				
10.02	478	174.58	9200	1.25				
12.56	382	139.34	9200	1.57				
14.30	335	122.42	9200	1.79				
15.20	315	115.11	9200	1.90				
18.42	260	95.01	9200	2.30				
20.48	234	85.46	9200	2.56				
23.84	201	73.40	9200	2.99				
33.84	142	51.72	9200	4.23				
27.02	177	64.76	9200	3.38				
30.76	156	56.90	9200	3.84				
44.06	109	39.72	9200	5.40				
11.77	407	148.71	5920	0.98				
14.46	331	121.06	5920	1.21				
16.68	287	104.91	5920	1.39				
18.31	262	95.57	5920	1.53				
20.49	234	85.41	5920	1.71				
22.07	217	79.30	5920	1.84				
24.57	195	71.21	5920	2.05				
25.95	185	67.43	5920	2.17				
28.77	167	60.83	5920	2.40				
31.28	153	55.95	5920	2.61				
34.83	138	50.24	5920	2.91				
40.78	117	42.91	5920	3.40				
48.53	99	36.06	5920	3.90				
54.05	89	32.38	5920	4.17				
57.08	84	30.66	5920	4.31				
68.80	70	25.44	5920	4.83				
70.68	70	24.76	5920	5.30				
21.70	221	80.65	4290	0.91				
24.82	193	70.50	4290	1.04				
26.48	181	66.09	4290	1.11				
30.01	160	58.32	4290	1.25				
32.09	149	54.54	4290	1.34				
33.85	142	51.70	4290	1.41				
39.93	120	43.83	4290	1.66				
45.68	105	38.31	4290	1.91				
48.73	98	35.91	4290	2.03				
55.22	87	31.69	4290	2.30				
62.29	77	28.10	4290	2.59				
70.85	70	24.70	4290	2.87				
88.77	56	19.71	4245	3.59				
101.04	49	17.32	4105	4.09				
107.46	46	16.29	4040	4.35				
144.74	34	12.09	3720	5.85				
0.75 (1HP)	1.74	3540	1008	29900	1.21			
	1.95	3152	897	29900	1.36			
	2.32	2648	754	29900	1.62			
	2.58	2386	679	29900	1.80			
	2.90	2117	603	29900	2.03			
	3.29	1870	532	29900	2.30			
	3.71	1659	472	29900	2.59			
	4.38	1404	400	29900	3.06			



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
4.94	1245	355	29900	3.45				
2.47	2487	708	19800	1.21		FS87 R57		118
2.75	2235	636	19800	1.34		FM87 R57		128
3.22	1908	543	19800	1.57		FN87 R57	80	138
3.59	1714	488	19800	1.75		FH87 R57		113
4.74	1296	369	19800	2.32				
4.78	1285	366	15700	1.17		FS77 R37		68
5.59	1100	313	15700	1.36		FM77 R37	80	70
6.22	988	281	15700	1.52		FN77 R37		78
						FH77 R37		64
10.78	606	162.37	19800	4.95		FS87		97
12.40	527	141.09	19800	5.70		FM87	80	107
						FN87		117
						FH87		92
10.49	623	166.80	15700	2.41				
10.92	598	160.23	15700	2.51		FS77		59
11.86	551	147.56	15700	2.72		FM77	80	60
18.64	351	93.90	15700	4.27		FN77		68
20.92	312	83.63	15700	4.79		FH77		55
23.33	280	75.02	15700	5.36				
9.32	701	187.70	10300	1.17				
11.54	566	151.68	10300	1.45				
13.10	499	133.62	10300	1.64				
15.97	409	109.55	10300	1.95				
16.95	385	103.23	10300	2.05				
19.64	333	89.11	10300	2.30		FS67		34
22.62	289	77.36	10300	2.59		FM67	80	38
24.85	263	70.42	10300	2.78		FN67		40
26.94	242	64.95	10300	2.98		FH67		32
30.59	214	57.22	10300	3.31				
37.31	175	46.91	10300	3.88				
39.59	165	44.20	10300	4.07				
45.86	142	38.16	10300	4.59				
52.83	124	33.12	10300	5.15				
58.03	113	30.15	10300	5.55				
61.54	109	28.44	10300	5.65		FS67		35
						FM67	80	39
						FN67		41
						FH67		33
10.02	652	174.58	9200	0.92				
12.56	520	139.34	9200	1.15				
14.30	457	122.42	9200	1.31				
15.20	430	115.11	9200	1.40				
18.42	355	95.01	9200	1.69		FS57		31
20.48	319	85.46	9200	1.88		FM57	80	27
23.84	274	73.40	9200	2.19		FN57		38
33.84	193	51.72	9200	3.10		FH57		31
27.02	242	64.76	9200	2.48				
30.76	212	56.90	9200	2.82				
44.06	148	39.72	9200	3.96				
51.30	127	34.11	9200	4.49				
14.46	452	121.06	5920	0.89				
16.68	392	104.91	5920	1.02				
18.31	357	95.57	5920	1.12				
20.49	319	85.41	5920	1.26				
22.07	296	79.30	5920	1.35				
24.57	266	71.21	5920	1.50		FS47		22
25.95	252	67.43	5920	1.59		FM47		24
28.77	227	60.83	5920	1.76		FN47	80	25



Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.12 (0.16HP)	0.27	3499	6417	29900	1.23	FS97 R57	63	187
	0.31	3079	5648	29900	1.40	FM97 R57		202
	0.35	2752	5047	29900	1.56	FN97 R57		217
	0.40	2380	4366	29900	1.81	FH97 R57		177
	0.43	2294	4081	29900	1.87	FS97 R57	63	182
	0.53	1853	3296	29900	2.32	FM97 R57		197
	0.59	1673	2977	29900	2.57	FN97 R57		212
	0.68	1450	2580	29900	2.97	FH97 R57		172
	0.41	2322	4258	19800	1.29	FS87 R57	63	117
	0.47	2033	3729	19800	1.48	FM87 R57		127
						FN87 R57		137
						FH87 R57		112
	0.55	1804	3209	19800	1.66	FS87 R57 FM87 R57 FN87 R57 FH87 R57	63	112
	0.61	1604	2853	19800	1.87			122
	0.68	1443	2567	19800	2.08			132
	0.82	1203	2140	19800	2.49			107
	0.92	1072	1907	19800	2.80			
	1.02	961	1710	19800	3.12			
	1.22	805	1433	19800	3.73			
	1.40	702	1249	19800	4.27			
	1.55	633	1126	19800	4.74			
	0.67	1428	2619	15700	1.05	FS77 R37	63	66
	0.75	1268	2326	15700	1.18	FM77 R37		68
	0.84	1133	2079	15700	1.32	FN77 R37		76
						FH77 R37		62
	1.01	970	1726	15700	1.55	FS77 R37 FM77 R37 FN77 R37 FH77 R37	63	65
	1.06	926	1647	15700	1.62			66
	1.22	805	1432	15700	1.86			74
	1.31	751	1336	15700	2.00			61
	1.51	653	1161	15700	2.30			
	1.62	606	1078	15700	2.48			
	1.96	503	894	15700	2.98			
	1.22	806	1433	10300	1.02	FS67 R37 FM67 R37 FN67 R37 FH67 R37	63	42
	1.36	723	1287	10300	1.13			46
	1.57	625	1112	10300	1.31			48
	1.73	569	1012	10300	1.44			40
	2.06	477	848	10300	1.72			
	2.34	420	746	10300	1.95			
	2.69	366	651	10300	2.24			
	3.06	322	572	10300	2.55			
	3.41	288	513	10300	2.84			
	4.00	246	437	10300	3.34			
	2.06	477	848	9200	1.26	FS57 R37 FM57 R37 FN57 R37 FH57 R37	63	39
	2.38	413	735	9200	1.45			45
	2.69	365	650	9200	1.64			46
	3.17	310	551	9200	1.94			39
	3.54	278	494	9200	2.16			
	3.92	251	446	9200	2.39			
	4.14	245	423	9200	2.45	FS57 R37 FM57 R37 FN57 R37 FH57 R37	63	38
	4.59	221	382	9200	2.71			44
	5.29	192	331	9200	3.13			45
	5.81	175	301	9200	3.44			38
	6.59	154	265	9200	3.90			
	3.22	305	543	5920	1.31	FS47 R17 FM47 R17 FN47 R17 FH47 R17	63	25
	3.67	268	476	5920	1.49			27
	4.20	234	417	5920	1.71			28
								25
	4.71	215	372	5920	1.86	FS47 R17	63	25
	5.36	189	327	5920	2.11	FM47 R17		27



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
13.10	732	133.62	10300	1.12				
15.97	600	109.55	10300	1.33				
16.95	565	103.23	10300	1.40				
19.64	488	89.11	10300	1.57		FS67		34
22.62	424	77.36	10300	1.76		FM67		38
24.85	386	70.42	10300	1.89		FN67	90	40
26.94	356	64.95	10300	2.03		FH67		32
30.59	313	57.22	10300	2.26				
37.31	257	46.91	10300	2.65				
39.59	242	44.20	10300	2.78				
45.86	209	38.16	10300	3.13				
52.83	181	33.12	10300	3.51				
58.03	165	30.15	10300	3.79				
61.54	161	28.44	10300	3.86		FS67		35
						FM67	90	39
						FN67		41
						FH67		33
14.30	670	122.42	9200	0.89				
15.20	630	115.11	9200	0.95				
18.42	520	95.01	9200	1.15				
20.48	468	85.46	9200	1.28		FS57		31
23.84	402	73.40	9200	1.49		FM57		27
33.84	283	51.72	9200	2.11		FN57	90	38
27.02	355	64.76	9200	1.69		FH57		31
30.76	312	56.90	9200	1.92				
44.06	217	39.72	9200	2.70				
51.30	187	34.11	9200	3.06				
72.81	132	24.04	9065	4.17				
66.13	149	26.46	9200	3.67		FS57		32
75.07	132	23.31	8965	4.19		FM57	90	28
91.57	108	19.11	8485	5.12		FN57		39
97.18	102	18.01	8345	5.44		FH57		32
20.49	468	85.41	5920	0.86				
22.07	434	79.30	5920	0.92				
24.57	390	71.21	5920	1.03				
25.95	369	67.43	5920	1.09				
28.77	333	60.83	5920	1.20		FS47		22
31.28	306	55.95	5920	1.31		FM47	90	24
34.83	275	50.24	5920	1.46		FN47		25
40.78	235	42.91	5920	1.70		FH47		22
48.53	197	36.06	5920	1.95				
54.05	177	32.38	5920	2.08				
57.08	168	30.66	5920	2.16				
68.80	139	25.44	5920	2.41				
70.68	140	24.76	5920	2.65				
80.45	123	21.75	5920	3.02				
85.56	115	20.45	5870	3.22				
115.24	86	15.19	5460	4.35		FS47		22
134.17	74	13.04	5250	5.09		FM47	90	24
155.45	64	11.26	4940	3.82		FN47		25
176.94	56	9.89	4775	4.13		FH47		22
188.17	53	9.30	4700	4.28				
253.46	39	6.90	4335	5.11				
295.09	33	5.93	4155	5.62				
39.93	240	43.83	4105	0.83		FS37		17
45.68	210	38.31	4095	0.95		FM37	90	18
48.73	197	35.91	4085	1.02		FN37		19
55.22	174	31.69	4045	1.15		FH37		17
62.29	154	28.10	3995	1.30				



Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	70.85	139	24.70	3895	1.43			
	88.77	111	19.71	3770	1.80			
	101.04	98	17.32	3685	2.05	FS37		17
	107.46	92	16.29	3645	2.17	FM37		18
	144.74	68	12.09	3430	2.93	FN37	90	19
	168.51	59	10.39	3315	3.42	FH37		17
	188.85	52	9.27	3115	2.62			
	214.96	46	8.14	3025	2.84			
	307.92	32	5.68	2780	3.54			
1.5 (2HP)	3.29	3740	532	29900	1.15	FS97 R57		188
	3.71	3318	472	29900	1.30	FM97 R57	90	203
	4.38	2808	400	29900	1.53	FN97 R57		218
	4.94	2491	355	29900	1.73	FH97 R57		178
	5.46	2253	321	19800	1.33	FS87 R57		118
	7.08	1736	247	19800	1.73	FM87 R57	90	128
						FN87 R57		138
						FH87 R57		113
	10.29	1270	170.08	29900	3.39			
	11.67	1120	149.98	29900	3.84	FS97	90	169
	12.78	1023	136.95	29900	4.21	FM97		184
	15.99	817	109.42	29900	5.27	FN97		199
	15.00	871	116.67	29900	4.95	FH97		159
	17.74	737	98.66	29900	5.84			
	10.78	1212	162.37	19800	2.48			
	12.40	1054	141.09	19800	2.85			
	16.09	812	108.77	19800	3.70	FS87	90	97
	17.04	767	102.70	19800	3.91	FM87		107
	18.95	689	92.34	19800	4.35	FN87		117
	21.00	622	83.32	19800	4.82	FH87		92
	22.24	587	78.67	19800	5.10			
	24.74	528	70.73	19800	5.56			
	10.49	1246	166.80	15700	1.20			
	10.92	1196	160.23	15700	1.25			
	11.86	1102	147.56	15700	1.36			
	18.64	701	93.90	15700	2.14	FS77	90	59
	20.92	625	83.63	15700	2.40	FM77		60
	23.33	560	75.02	15700	2.68	FN77		68
	29.47	443	59.38	15700	3.38	FH77		55
	32.86	398	53.26	15700	3.77			
	35.69	366	49.04	15700	4.10			
	42.00	311	41.67	15700	4.81			
	13.10	998	133.62	10300	0.82			
	15.97	818	109.55	10300	0.97			
	16.95	771	103.23	10300	1.03			
	19.64	665	89.11	10300	1.15			
	22.62	578	77.36	10300	1.29	FS67	90	34
	24.85	526	70.42	10300	1.39	FM67		38
	26.94	485	64.95	10300	1.49	FN67		40
	30.59	427	57.22	10300	1.65	FH67		32
	37.31	350	46.91	10300	1.94			
	39.59	330	44.20	10300	2.04			
	45.86	285	38.16	10300	2.29			
	52.83	247	33.12	10300	2.57			
	58.03	225	30.15	10300	2.78			
	61.54	219	28.44	10300	2.83	FS67	90	35
	96.71	139	18.10	10300	4.46	FM67		39
	108.59	124	16.12	10300	5.01	FN67		41
	121.05	111	14.46	10300	5.61	FH67		33
	18.42	709	95.01	9200	0.84			

Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	20.48	638	85.46	9200	0.94			
	23.84	548	73.40	9200	1.10	FS57		31
	33.84	386	51.72	9200	1.55	FM57		27
	27.02	484	64.76	9200	1.24	FN57	90	38
	30.76	425	56.90	9200	1.41	FH57		31
	44.06	297	39.72	9200	1.98			
	51.30	255	34.11	9200	2.24			
	72.81	179	24.04	8770	3.06			
	66.13	204	26.46	8945	2.69			
	75.07	179	23.31	8670	3.07	FS57		32
	91.57	147	19.11	8245	3.75	FM57		28
	97.18	139	18.01	8115	3.99	FN57	90	39
	112.57	120	15.55	7805	4.64	FH57		32
	129.67	104	13.50	7510	5.36			
	142.44	95	12.29	7315	5.88			
	25.95	503	67.43	5920	0.80			
	28.77	454	60.83	5920	0.88			
	31.28	418	55.95	5920	0.96	FS47		22
	34.83	375	50.24	5920	1.07	FM47		24
	40.78	320	42.91	5920	1.25	FN47	90	25
	48.53	269	36.06	5665	1.43	FH47		22
	54.05	242	32.38	5630	1.53			
	57.08	229	30.66	5605	1.58			
	68.80	190	25.44	5500	1.77			
	70.68	191	24.76	5750	1.94			
	80.45	167	21.75	5620	2.21			
	85.56	157	20.45	5555	2.36			
	115.24	117	15.19	5225	3.19	FS47		22
	134.17	100	13.04	5045	3.73	FM47		24
	155.45	87	11.26	4725	2.80	FN47	90	25
	176.94	76	9.89	4590	3.03	FH47		22
	188.17	72	9.30	4525	3.14			
	253.46	53	6.90	4205	3.75			
	295.09	46	5.93	4040	4.12			
	418.83	32	4.18	3675	5.10			
	55.22	237	31.69	3505	0.84	FS37		17
	62.29	210	28.10	3515	0.95	FM37	90	18
						FN37		19
						FH37		17
	70.85	190	24.70	3460	1.05			
	88.77	152	19.71	3420	1.32			
	101.04	133	17.32	3380	1.50	FS37		17
	107.46	125	16.29	3355	1.59	FM37		18
	144.74	93	12.09	3215	2.15	FN37	90	19
	168.51	80	10.39	3130	2.51	FH37		17
	188.85	71	9.27	2910	1.92			
	214.96	63	8.14	2845	2.08			
	307.92	44	5.68	2650	2.59			
2.2 (3HP)	6.20	2910	282	29900	1.48	FS97 R57		191
	6.96	2591	251	29900	1.66	FM97 R57	100	206
						FN97 R57		221
						FH97 R57		181
	10.29	1863	170.08	29900	2.31			
	11.67	1643	149.98	29900	2.62			
	12.78	1500	136.95	29900	2.87	FS97		172
	15.99	1198	109.42	29900	3.59	FM97		187
	15.00	1278	116.67	29900	3.37	FN97	100	202
	17.74	1081	98.66	29900	3.98	FH97		162
	20.02	957	87.40	29900	4.49			



Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
22.46	853	77.93	29900	4.95				
27.12	707	64.52	29900	5.76				
10.78	1778	162.37	19800	1.69				
12.40	1545	141.09	19800	1.94				
16.09	1191	108.77	19800	2.52				
17.04	1125	102.70	19800	2.67				
18.95	1011	92.34	19800	2.97		FS87		100
21.00	913	83.32	19800	3.29		FM87	100	110
22.24	862	78.67	19800	3.48		FN87		120
24.74	775	70.73	19800	3.79		FH87		95
28.34	676	61.76	19800	4.23				
32.72	586	53.48	19800	3.57				
37.66	509	46.47	19800	4.08				
48.85	392	35.83	19800	5.32				
10.49	1827	166.80	15700	0.82				
10.92	1755	160.23	15700	0.85				
11.86	1616	147.56	15700	0.93				
18.64	1028	93.90	15700	1.46		FS77		62
20.92	916	83.63	15700	1.63		FM77	100	63
23.33	822	75.02	15700	1.83		FN77		71
29.47	650	59.38	15700	2.30		FH77		58
32.86	583	53.26	15700	2.57				
35.69	537	49.04	15700	2.79				
42.00	456	41.67	15700	3.28				
56.00	342	31.25	15700	4.38				
70.77	279	24.73	15700	5.37		FS77		63
						FM77	100	65
						FN77		73
						FH77		59
22.62	847	77.36	10300	0.88				
24.85	771	70.42	10300	0.95				
26.94	711	64.95	10300	1.02		FS67		37
30.59	627	57.22	10300	1.13		FM67	100	41
37.31	514	46.91	10300	1.32		FN67		43
39.59	484	44.20	10300	1.39		FH67		35
45.86	418	38.16	10300	1.56				
52.83	363	33.12	10300	1.76				
58.03	330	30.15	10300	1.89				
61.54	321	28.44	10300	1.93				
96.71	204	18.10	10300	3.04		FS67		38
108.59	182	16.12	10300	3.42		FM67	100	42
121.05	163	14.46	10300	3.83		FN67		44
131.48	150	13.31	10300	4.16		FH67		36
154.74	128	11.31	10300	4.90				
33.84	566	51.72	9200	1.06				
27.02	709	64.76	9200	0.84		FS57		34
30.76	623	56.90	9200	0.96		FM57	100	30
44.06	435	39.72	8995	1.35		FN57		41
51.30	374	34.11	8800	1.53		FH57		34
72.81	263	24.04	8255	2.08				
66.13	299	26.46	8360	1.84				
75.07	263	23.31	8155	2.09				
91.57	216	19.11	7820	2.56				
97.18	203	18.01	7720	2.72		FS57		35
112.57	176	15.55	7460	3.16		FM57	100	31
129.67	152	13.50	7210	3.65		FN57		42
142.44	139	12.29	7040	4.01		FH57		35
154.12	128	11.35	6780	4.69				
188.00	105	9.31	6450	5.24				



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	199.51	99	8.77	6355	5.47			
	231.11	85	7.57	6115	5.99			
	40.78	470	42.91	5090	0.85	FS47		24
	48.53	395	36.06	4505	0.97	FM47		26
	54.05	355	32.38	4590	1.04	FN47	100	27
	57.08	336	30.66	4620	1.08	FH47		24
	68.80	279	25.44	4685	1.21			
	70.68	280	24.76	5080	1.32			
	80.45	246	21.75	5030	1.51			
	85.56	231	20.45	5000	1.61			
	115.24	171	15.19	4815	2.18	FS47		24
	134.17	147	13.04	4695	2.55	FM47		26
	155.45	127	11.26	4355	1.91	FN47	100	27
	176.94	112	9.89	4260	2.06	FH47		24
	188.17	105	9.30	4215	2.14			
	253.46	78	6.90	3975	2.56			
	295.09	67	5.93	3845	2.81			
	418.83	47	4.18	3535	3.48			
	88.77	223	19.71	2815	0.90			
	101.04	196	17.32	2845	1.02			
	107.46	184	16.29	2855	1.09	FS37		19
	144.74	137	12.09	2845	1.46	FM37		20
	168.51	117	10.39	2810	1.71	FN37	100	21
	188.85	105	9.27	2550	1.31	FH37		19
	214.96	92	8.14	2535	1.42			
	307.92	64	5.68	2435	1.77			
3 (4HP)	10.29	2540	170.08	29900	1.69			
	11.67	2240	149.98	29900	1.92			
	12.78	2045	136.95	29900	2.10			
	15.99	1634	109.42	29900	2.63			
	15.00	1742	116.67	29900	2.47	FS97		172
	17.74	1473	98.66	29900	2.92	FM97		187
	20.02	1305	87.40	29900	3.29	FN97	100	202
	22.46	1164	77.93	29900	3.63	FH97		162
	27.12	964	64.52	29900	4.23			
	30.62	853	57.15	29900	4.66			
	34.34	761	50.96	29900	5.12			
	38.30	682	45.69	29900	5.60			
	10.78	2425	162.37	19800	1.24			
	12.40	2107	141.09	19800	1.42			
	16.09	1624	108.77	19800	1.85			
	17.04	1534	102.70	19800	1.96			
	18.95	1379	92.34	19800	2.18	FS87		100
	21.00	1244	83.32	19800	2.41	FM87		110
	22.24	1175	78.67	19800	2.55	FN87	100	120
	24.74	1056	70.73	19800	2.78	FH87		95
	28.34	922	61.76	19800	3.10			
	32.72	799	53.48	19800	2.62			
	37.66	694	46.47	19800	2.99			
	48.85	535	35.83	19800	3.90			
	70.04	373	24.98	19800	5.63			
	18.64	1402	93.90	15700	1.07			
	20.92	1249	83.63	15700	1.20			
	23.33	1120	75.02	15700	1.34	FS77		62
	29.47	887	59.38	15700	1.69	FM77		63
	32.86	795	53.26	15700	1.89	FN77	100	71
	35.69	732	49.04	15700	2.05	FH77		58
	42.00	622	41.67	15700	2.41			
	56.00	467	31.25	15700	3.21			



Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	70.77	381	24.73	15700	3.94	FS77 FM77 FN77 FH77	100	63
	81.45	331	21.49	15700	4.53			65
	105.65	255	16.56	15700	5.88			73
								59
	30.59	854	57.22	10300	0.83	FS67 FM67 FN67 FH67	100	
	37.31	701	46.91	10300	0.97			37
	39.59	660	44.20	10300	1.02			41
	45.86	570	38.16	10300	1.15			43
	52.83	495	33.12	10300	1.29			35
	58.03	450	30.15	10300	1.39			
	61.54	438	28.44	10300	1.41	FS67 FM67 FN67 FH67	100	
	96.71	279	18.10	10300	2.23			
	108.59	248	16.12	10300	2.51			38
	121.05	223	14.46	10300	2.81			42
	131.48	205	13.31	10300	3.05			44
	154.74	174	11.31	10300	3.60			36
	206.32	131	8.48	9730	4.84			
	264.15	102	6.63	9020	5.31			
	294.47	91	5.94	8750	5.74			
	44.06	593	39.72	8025	0.99			FS57 FM57 FN57 FH57
	51.30	509	34.11	7960	1.12	30		
	72.81	359	24.04	7665	1.53	41		
						34		
	66.13	407	26.46	7690	1.35	FS57 FM57 FN57 FH57	100	
	75.07	359	23.31	7565	1.54			
	91.57	294	19.11	7335	1.88			
	97.18	277	18.01	7260	2.00			
	112.57	239	15.55	7065	2.32			35
	129.67	208	13.50	6865	2.68			31
	142.44	189	12.29	6730	2.94			42
	154.12	175	11.35	6450	3.44			35
	188.00	143	9.31	6180	3.84			
	199.51	135	8.77	6100	4.01			
	231.11	117	7.57	5895	4.39			
	266.23	101	6.57	5690	4.80			
	292.44	92	5.98	5560	5.08			
	57.08	458	30.66	3495	0.79	FS47 FM47 FN47 FH47	100	24
	68.80	380	25.44	3750	0.89			26
								27
								24
	70.68	381	24.76	4315	0.97	FS47 FM47 FN47 FH47	100	
	80.45	335	21.75	4360	1.11			
	85.56	315	20.45	4370	1.18			
	115.24	234	15.19	4345	1.60			24
	134.17	201	13.04	4290	1.87			26
	155.45	173	11.26	3930	1.40			27
	176.94	152	9.89	3890	1.51			24
	188.17	143	9.30	3865	1.57			
	253.46	106	6.90	3715	1.88			
	295.09	91	5.93	3620	2.06			
	418.83	64	4.18	3380	2.55			
	107.46	251	16.29	2280	0.80	FS37 FM37 FN37 FH37	100	19
	144.74	186	12.09	2415	1.07			20
	168.51	160	10.39	2445	1.25			21
	188.85	143	9.27	2145	0.96			19
	214.96	125	8.14	2175	1.04			
	307.92	88	5.68	2185	1.30			
4	10.29	3387	170.08	29900	1.27			
(5.4HP)	11.67	2987	149.98	29900	1.44			



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
12.78	2727	136.95	29900	1.58				
15.99	2179	109.42	29900	1.98				
15.00	2323	116.67	29900	1.85		FS97		172
17.74	1965	98.66	29900	2.19		FM97		187
20.02	1740	87.40	29900	2.47		FN97	112	202
22.46	1552	77.93	29900	2.72		FH97		162
27.12	1285	64.52	29900	3.17				
30.62	1138	57.15	29900	3.49				
34.34	1015	50.96	29900	3.84				
38.30	910	45.69	29900	4.20				
51.92	671	33.70	29080	5.37				
54.04	665	32.38	28730	5.40		FS97		177
60.59	593	28.88	27915	5.93		FM97	112	192
						FN97		207
						FH97		167
10.78	3233	162.37	19800	0.93				
12.40	2809	141.09	19800	1.07				
16.09	2166	108.77	19800	1.39				
17.04	2045	102.70	19800	1.47				
18.95	1839	92.34	19800	1.63				
21.00	1659	83.32	19800	1.81		FS87		100
22.24	1567	78.67	19800	1.91		FM87	112	110
24.74	1408	70.73	19800	2.09		FN87		120
28.34	1230	61.76	19800	2.32		FH87		95
32.72	1065	53.48	19800	1.96				
37.66	925	46.47	19800	2.24				
48.85	713	35.83	19800	2.93				
70.04	498	24.98	19800	4.22				
89.24	390	19.61	18840	5.41				
54.32	661	32.21	19800	3.84		FS87		105
61.60	583	28.41	19800	4.26		FM87	112	115
67.47	532	25.94	19800	4.59		FN87		125
79.19	454	22.10	19635	5.34		FH87		100
84.44	425	20.73	19330	5.69				
18.64	1870	93.90	15700	0.80				
20.92	1665	83.63	15700	0.90				
23.33	1494	75.02	15700	1.00		FS77		62
29.47	1182	59.38	15700	1.27		FM77	112	63
32.86	1061	53.26	15700	1.41		FN77		71
35.69	976	49.04	15700	1.54		FH77		58
42.00	830	41.67	15700	1.80				
56.00	622	31.25	15700	2.41				
70.77	508	24.73	15700	2.96				
81.45	441	21.49	15700	3.40		FS77		63
105.65	340	16.56	15700	4.41		FM77	112	65
111.89	321	15.64	15700	4.67		FN77		73
124.45	289	14.06	15700	5.20		FH77		59
142.53	252	12.28	15700	5.94				
45.86	760	38.16	10300	0.86		FS67		37
52.83	660	33.12	10300	0.97		FM67	112	41
58.03	600	30.15	10300	1.04		FN67		43
						FH67		35
61.54	584	28.44	10300	1.06				
96.71	371	18.10	10300	1.67				
108.59	331	16.12	10300	1.88				
121.05	297	14.46	10300	2.10		FS67		38
131.48	273	13.31	10300	2.29		FM67	112	42
154.74	232	11.31	10300	2.70		FN67		44
206.32	174	8.48	9615	3.63		FH67		36



Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	264.15	136	6.63	8905	3.99			
	294.47	122	5.94	8650	4.31			
	319.83	112	5.47	8460	4.57			
	51.30	679	34.11	6915	0.84	FS57		34
	72.81	479	24.04	6930	1.15	FM57	112	30
						FN57		41
						FH57		34
	66.13	543	26.46	6855	1.01			
	75.07	479	23.31	6830	1.15			
	91.57	392	19.11	6735	1.41			
	97.18	370	18.01	6695	1.50			
	112.57	319	15.55	6575	1.74	FS57		35
	129.67	277	13.50	6440	2.01	FM57	112	31
	142.44	252	12.29	6345	2.21	FN57		42
	154.12	233	11.35	6035	2.58	FH57		35
	188.00	191	9.31	5840	2.88			
	199.51	180	8.77	5780	3.01			
	231.11	155	7.57	5615	3.29			
	266.23	135	6.57	5450	3.60			
	292.44	123	5.98	5340	3.81			
5.5 (7.4HP)	10.29	4657	170.08	29900	0.92			
	11.67	4106	149.98	29900	1.05			
	12.78	3750	136.95	29900	1.15			
	15.99	2996	109.42	29900	1.44			
	15.00	3194	116.67	29900	1.35	FS97		177
	17.74	2701	98.66	29900	1.59	FM97	132S	192
	20.02	2393	87.40	29900	1.80	FN97		207
	22.46	2134	77.93	29900	1.98	FH97		167
	27.12	1766	64.52	29900	2.30			
	30.62	1565	57.15	29900	2.54			
	34.34	1395	50.96	29900	2.79			
	38.30	1251	45.69	29900	3.05			
	51.92	923	33.70	28305	3.91			
	54.04	914	32.38	27960	3.92	FS97		182
	60.59	815	28.88	27230	4.31	FM97	132S	197
	77.01	641	22.72	25700	5.25	FN97		212
						FH97		172
	16.09	2978	108.77	19800	1.01			
	17.04	2812	102.70	19800	1.07			
	18.95	2528	92.34	19800	1.19			
	21.00	2281	83.32	19800	1.31			
	22.24	2154	78.67	19800	1.39	FS87		106
	24.74	1937	70.73	19800	1.52	FM87	132S	116
	28.34	1691	61.76	19800	1.69	FN87		126
	32.72	1464	53.48	19800	1.43	FH87		101
	37.66	1272	46.47	19800	1.63			
	48.85	981	35.83	19800	2.13			
	70.04	684	24.98	19125	3.07			
	89.24	537	19.61	18205	3.94			
	54.32	909	32.21	19800	2.80			
	61.60	802	28.41	19800	3.10			
	67.47	732	25.94	19685	3.34	FS87		111
	79.19	624	22.10	19025	3.88	FM87	132S	121
	84.44	585	20.73	18760	4.14	FN87		131
	93.65	527	18.69	18330	4.60	FH87		106
	105.72	467	16.55	17820	5.20			
	118.56	417	14.76	17345	5.86			
	29.47	1626	59.38	15700	0.92	FS77		68
	32.86	1458	53.26	15700	1.03	FM77		69

Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	35.69	1343	49.04	15700	1.12	FN77	132S	77
	42.00	1141	41.67	15700	1.31	FH77		64
	56.00	856	31.25	15700	1.75			
	70.77	698	24.73	15700	2.15			
	81.45	606	21.49	15700	2.47			
	105.65	468	16.56	15700	3.21	FS77		69
	111.89	441	15.64	15700	3.40	FM77		71
	124.45	397	14.06	15700	3.78	FN77	132S	79
	142.53	347	12.28	15700	4.32	FH77		65
	193.01	256	9.07	15610	5.86			
	223.39	221	7.83	14860	5.57			
	236.59	209	7.40	14650	5.78			
	96.71	511	18.10	10300	1.22			
	108.59	455	16.12	10300	1.37			
	121.05	408	14.46	10300	1.53	FS67		44
	131.48	376	13.31	10300	1.67	FM67		48
	154.74	319	11.31	10140	1.96	FN67	132S	50
	206.32	239	8.48	9445	2.64	FH67		42
	264.15	187	6.63	8735	2.90			
	294.47	168	5.94	8500	3.13			
	319.83	154	5.47	8325	3.32			
	72.81	658	24.04	5825	0.83	FS57		40
						FM57	132S	36
						FN57		47
						FH57		40
	75.07	658	23.31	5725	0.84			
	91.57	539	19.11	5825	1.02			
	97.18	508	18.01	5840	1.09			
	112.57	439	15.55	5840	1.26			
	129.67	381	13.50	5800	1.46	FS57		41
	142.44	347	12.29	5760	1.60	FM57	132S	37
	154.12	320	11.35	5415	1.88	FN57		48
	188.00	263	9.31	5330	2.09	FH57		41
	199.51	248	8.77	5300	2.19			
	231.11	214	7.57	5200	2.40			
	266.23	186	6.57	5095	2.62			
	292.44	169	5.98	5015	2.77			
7.5 (10HP)	12.78	5113	136.95	29900	0.84			
	15.99	4085	109.42	29900	1.05			
	15.00	4356	116.67	29900	0.99			
	17.74	3684	98.66	29900	1.17	FS97		177
	20.02	3263	87.40	29900	1.32	FM97		192
	22.46	2910	77.93	29900	1.45	FN97	132M	207
	27.12	2409	64.52	29900	1.69	FH97		167
	30.62	2134	57.15	29900	1.86			
	34.34	1903	50.96	29390	2.05			
	38.30	1706	45.69	28860	2.24			
	51.92	1258	33.70	27265	2.86			
	54.04	1246	32.38	26935	2.88	FS97		182
	60.59	1112	28.88	26310	3.16	FM97	132M	197
	77.01	875	22.72	24980	3.85	FN97		212
	100.11	673	17.48	23505	4.97	FH97		172
	18.95	3447	92.34	19800	0.87			
	21.00	3111	83.32	19800	0.96			
	22.24	2937	78.67	19800	1.02			
	24.74	2641	70.73	19800	1.11	FS87		106
	28.34	2306	61.76	19800	1.24	FM87	132M	116
	32.72	1997	53.48	19140	1.05	FN87		126
	37.66	1735	46.47	19120	1.20	FH87		101

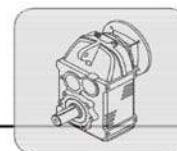


Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	48.85	1338	35.83	18830	1.56			
	70.04	933	24.98	18055	2.25			
	89.24	732	19.61	17370	2.89			
	54.32	1240	32.21	19360	2.05			
	61.60	1093	28.41	19000	2.27			
	67.47	998	25.94	18725	2.45	FS87		111
	79.19	851	22.10	18210	2.85	FM87		121
	84.44	798	20.73	17995	3.03	FN87	132M	131
	93.65	719	18.69	17640	3.38	FH87		106
	105.72	637	16.55	17210	3.82			
	118.56	568	14.76	16800	4.30			
	132.25	509	13.23	16405	4.81			
	35.69	1831	49.04	15700	0.82	FS77		68
	42.00	1556	41.67	15700	0.96	FM77	132M	69
	56.00	1167	31.25	15700	1.29	FN77		77
						FH77		64
	70.77	952	24.73	15700	1.58			
	81.45	827	21.49	15700	1.81			
	105.65	638	16.56	15700	2.35			
	111.89	602	15.64	15700	2.49	FS77		69
	124.45	541	14.06	15700	2.77	FM77	132M	71
	142.53	473	12.28	15700	3.17	FN77		79
	193.01	349	9.07	15235	4.30	FH77		65
	223.39	302	7.83	14480	4.08			
	236.59	285	7.40	14290	4.24			
	301.38	224	5.81	13485	6.01			
9.2 (12.4HP)	15.99	5011	109.42	28865	0.86			
	15.00	5343	116.67	28695	0.81			
	17.74	4519	98.66	29030	0.95			
	20.02	4003	87.40	29090	1.07	FS97		177
	22.46	3569	77.93	29030	1.18	FM97	132M	192
	27.12	2955	64.52	28720	1.38	FN97		207
	30.62	2617	57.15	28410	1.52	FH97		167
	34.34	2334	50.96	28055	1.67			
	38.30	2092	45.69	27665	1.82			
	51.92	1544	33.70	26385	2.34			
	54.04	1529	32.38	26055	2.35			
	60.59	1364	28.88	25530	2.58	FS97		182
	77.01	1073	22.72	24365	3.14	FM97		197
	100.11	825	17.48	23035	4.05	FN97	132M	212
	126.28	654	13.86	21840	5.15	FH97		172
	135.13	611	12.95	21110	3.82			
	151.49	545	11.55	20570	5.35			
	22.24	3603	78.67	18185	0.83			
	24.74	3240	70.73	18510	0.91			
	28.34	2829	61.76	18785	1.01	FS87		106
	32.72	2449	53.48	17190	0.85	FM87	132M	116
	37.66	2128	46.47	17425	0.98	FN87		126
	48.85	1641	35.83	17530	1.27	FH87		101
	70.04	1144	24.98	17145	1.84			
	89.24	898	19.61	16655	2.35			
	54.32	1521	32.21	18345	1.67			
	61.60	1341	28.41	18115	1.85			
	67.47	1225	25.94	17915	2.00			
	79.19	1043	22.10	17520	2.32	FS87		111
	84.44	979	20.73	17345	2.47	FM87		121
	93.65	882	18.69	17050	2.75	FN87	132M	131
	105.72	782	16.55	16690	3.11	FH87		106
	118.56	697	14.76	16335	3.50			



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
11 (15HP)	132.25	625	13.23	15990	3.92		132M	
	179.27	461	9.76	14990	5.34			
	217.79	379	8.04	14065	5.83			
	56.00	1431	31.25	15700	1.05			
						FS77		68
						FM77		69
						FN77		77
						FH77		64
	70.77	1167	24.73	15700	1.29		132M	
	81.45	1014	21.49	15700	1.48			
	105.65	782	16.56	15700	1.92			
	111.89	738	15.64	15700	2.03			69
	124.45	664	14.06	15700	2.26			71
	142.53	580	12.28	15700	2.58			79
	193.01	428	9.07	14920	3.50			65
	223.39	370	7.83	14155	3.33			
	236.59	349	7.40	13980	3.46			
	301.38	274	5.81	13245	4.90			
	17.74	5403	98.66	26295	0.80		160M	
	20.02	4786	87.40	26665	0.90			
	22.46	4267	77.93	26870	0.99			188
	27.12	3533	64.52	26935	1.15			203
	30.62	3129	57.15	26825	1.27			218
	34.34	2791	50.96	26645	1.40			178
	38.30	2502	45.69	26395	1.53			
	51.92	1846	33.70	25450	1.95			
	54.04	1828	32.38	25135	1.96		160M	
	60.59	1631	28.88	24705	2.16			
	77.01	1283	22.72	23715	2.62			193
	100.11	987	17.48	22535	3.39			208
	126.28	782	13.86	21445	4.31			223
	135.13	731	12.95	20670	3.19			183
	151.49	652	11.55	20175	4.48			
	192.55	513	9.09	19120	5.29			
	250.31	395	6.99	17970	5.19		160M	
	28.34	3382	61.76	16800	0.85			117
	37.66	2545	46.47	15640	0.82			127
	48.85	1962	35.83	16150	1.06			137
	70.04	1368	24.98	16180	1.53			112
	89.24	1074	19.61	15900	1.97			
	54.32	1819	32.21	17280	1.40		160M	
	61.60	1604	28.41	17170	1.55			
	67.47	1464	25.94	17055	1.67			
	79.19	1247	22.10	16785	1.94			
	84.44	1170	20.73	16660	2.07			122
	93.65	1055	18.69	16435	2.30			132
	105.72	934	16.55	16145	2.60			142
	118.56	833	14.76	15850	2.93			117
	132.25	747	13.23	15550	3.28			
	179.27	551	9.76	14665	4.47			
	217.79	454	8.04	13750	4.87			
	245.87	402	7.12	13410	5.37			
	275.74	358	6.35	13085	5.83			
	56.00	1711	31.25	15700	0.88	FS77	160M	79
						FM77		80
						FN77		88
						FH77		75
	70.77	1396	24.73	15700	1.07			
	81.45	1213	21.49	15700	1.24			
	105.65	935	16.56	15700	1.60			

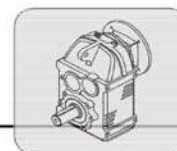


Parallel Shaft Gear Units

Selection Tables [kW] F..F/..M

1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
15 (20HP)	111.89	883	15.64	15700	1.70	FS77	160M	80
	124.45	794	14.06	15700	1.89	FM77		82
	142.53	693	12.28	15455	2.16	FN77		90
	193.01	512	9.07	14590	2.93	FH77		76
	223.39	442	7.83	13810	2.79			
	236.59	418	7.40	13655	2.89			
	301.38	328	5.81	12990	4.10			
	27.12	4818	64.52	22960	0.85	FS97	160L	188
	30.62	4267	57.15	23310	0.93	FM97		203
	34.34	3805	50.96	23505	1.02	FN97		218
	38.30	3412	45.69	23585	1.12	FH97		178
	51.92	2517	33.70	23375	1.43			
	54.04	2493	32.38	23075	1.44		160L	
	60.59	2224	28.88	22870	1.58			
	77.01	1749	22.72	22270	1.92			
	100.11	1346	17.48	21425	2.49	FS97		193
	126.28	1067	13.86	20565	3.16	FM97		208
	135.13	997	12.95	19680	2.34	FN97		223
	151.49	889	11.55	19290	3.28	FH97		183
	192.55	700	9.09	18430	3.88			
	250.31	538	6.99	17435	3.81			
	315.74	427	5.54	16545	5.49			
18.5 (25HP)	70.04	1866	24.98	14045	1.13	FS87	160L	117
	89.24	1464	19.61	14220	1.44	FM87		127
						FN87		137
						FH87		112
	54.32	2480	32.21	14905	1.03		160L	
	61.60	2187	28.41	15075	1.14			
	67.47	1997	25.94	15140	1.22			
	79.19	1701	22.10	15155	1.42			
	84.44	1595	20.73	15130	1.52			
	93.65	1439	18.69	15055	1.69			
	105.72	1274	16.55	14925	1.91	FS87		122
	118.56	1136	14.76	14760	2.15	FM87		132
	132.25	1019	13.23	14575	2.40	FN87		142
	179.27	751	9.76	13945	3.28	FH87		117
	217.79	619	8.04	13040	3.57			
	245.87	548	7.12	12780	3.94			
	275.74	489	6.35	12525	4.27			
	307.56	438	5.69	12270	4.61			
	416.91	323	4.20	11530	5.68			
	34.34	4693	50.96	20755	0.83	FS97	180M	197
	38.30	4208	45.69	21120	0.91	FM97		212
	51.92	3104	33.70	21555	1.16	FN97		227
						FH97		187
	54.04	3074	32.38	21280	1.17		180M	
	60.59	2742	28.88	21270	1.28			
	77.01	2158	22.72	21010	1.56			
	100.11	1660	17.48	20455	2.02	FS97		202
	126.28	1316	13.86	19795	2.56	FM97		217
	135.13	1230	12.95	18815	1.90	FN97		232
	151.49	1097	11.55	18520	2.66	FH97		192
	192.55	863	9.09	17820	3.15			
	250.31	664	6.99	16970	3.09			
	315.74	526	5.54	16175	4.45			
	70.04	2301	24.98	12170	0.91	FS87	180M	126
	89.24	1806	19.61	12750	1.17	FM87		136
						FN87		146
						FH87		121



1750 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	54.32	3059	32.21	12825	0.83			
	61.60	2697	28.41	13245	0.92			
	67.47	2463	25.94	13465	0.99			
	79.19	2098	22.10	13730	1.15			
	84.44	1968	20.73	13790	1.23			
	93.65	1774	18.69	13850	1.37	FS87		131
	105.72	1572	16.55	13855	1.55	FM87		141
	118.56	1401	14.76	13805	1.74	FN87	180M	151
	132.25	1256	13.23	13720	1.95	FH87		126
	179.27	927	9.76	13315	2.66			
	217.79	763	8.04	12420	2.90			
	245.87	676	7.12	12230	3.19			
	275.74	603	6.35	12035	3.46			
	307.56	540	5.69	11830	3.74			
	416.91	399	4.20	11205	4.61			
22 (30HP)	51.92	3691	33.70	19740	0.98	FS97		197
						FM97	180L	212
						FN97		227
						FH97		187
	54.04	3656	32.38	19480	0.98			
	60.59	3261	28.88	19660	1.08			
	77.01	2566	22.72	19750	1.31			
	100.11	1974	17.48	19485	1.70	FS97		202
	126.28	1565	13.86	19025	2.16	FM97	180L	217
	135.13	1462	12.95	17950	1.60	FN97		232
	151.49	1304	11.55	17750	2.24	FH97		192
	192.55	1026	9.09	17215	2.65			
	250.31	789	6.99	16500	2.59			
	315.74	626	5.54	15800	3.74			
	89.24	2148	19.61	11285	0.98			
	67.47	2929	25.94	11795	0.83			
	79.19	2495	22.10	12300	0.97			
	84.44	2340	20.73	12455	1.03			
	93.65	2110	18.69	12645	1.15			
	105.72	1869	16.55	12785	1.30	FS87		131
	118.56	1666	14.76	12855	1.47	FM87	180L	141
	132.25	1494	13.23	12865	1.64	FN87		151
	179.27	1102	9.76	12685	2.23	FH87		126
	217.79	907	8.04	11795	2.44			
	245.87	804	7.12	11685	2.68			
	275.74	717	6.35	11545	2.91			
	307.56	642	5.69	11390	3.14			
	416.91	474	4.20	10880	3.87			
30 (40HP)	60.59	4447	28.88	15995	0.79			
	77.01	3499	22.72	16865	0.96			
	100.11	2691	17.48	17265	1.24	FS97		205
	126.28	2134	13.86	17270	1.58	FM97	200L	220
	135.13	1994	12.95	15970	1.17	FN97		235
	151.49	1779	11.55	15985	1.64	FH97		195
	192.55	1399	9.09	15825	1.94			
	250.31	1076	6.99	15435	1.90			
	315.74	853	5.54	14955	2.75			



Helical Gear Units

Selection Tables [kW] F..S

1750 Input Rpm

i	na [1/min]	Ma max [Nm]	Pe [kW]	FRa [N]	FRe [N]		m [kg]
F37							200Nm
128.51	14	200	0.31	4290	590	FSS37 FMS37 FNS37 FHS37 Ø16	14
117.88	15	200	0.34	4290	590		15
100.36	17	200	0.40	4290	580		16
80.65	22	200	0.50	4290	560		14
70.50	25	200	0.57	4290	550		15
66.09	26	200	0.61	4290	540		16
58.32	30	200	0.69	4290	530		14
54.54	32	200	0.73	4290	410		
51.70	34	200	0.78	4290	520		
43.83	40	200	0.92	4290	400		
38.31	46	200	1.05	4230	640	FSS37 FMS37 FNS37 FHS37 Ø19	14
35.91	49	200	1.12	4110	640		15
31.69	55	200	1.27	3875	630		16
28.10	62	200	1.42	3660	620		14
24.70	71	200	1.58	3430	380	FSS37 FMS37 FNS37 FHS37 Ø19	14
19.71	89	200	1.98	3060	410		15
17.32	101	200	2.25	2860	390		16
16.29	107	200	2.39	2770	380		14
12.09	145	200	3.22	2350	330		
10.39	169	200	3.76	2150	340		
9.27	189	137	2.88	2250	210		
8.14	215	130	3.12	2160	210		
5.68	308	113	3.89	1940	220		
F47							400Nm
148.71	12	400	0.54	5920	470	FSS47 FMS47 FNS47 FHS47 Ø16	19
121.06	14	400	0.66	5920	450		21
104.91	17	400	0.77	5920	390		22
95.57	18	400	0.84	5920	430		19
85.41	20	400	0.94	5920	380		
79.30	22	400	1.01	5920	670	FSS47 FMS47 FNS47 FHS47 Ø19	19
71.21	25	400	1.13	5920	670		21
67.43	26	400	1.19	5920	610		22
60.83	29	400	1.32	5920	670		19
55.95	31	400	1.44	5920	600		
50.24	35	400	1.60	5920	600		
42.91	41	400	1.87	5710	590		
36.06	49	385	2.14	4705	470		
32.38	54	369	2.29	4555	480		
30.66	57	361	2.37	4480	380		
25.44	69	336	2.66	4245	380	FSS47 FMS47 FNS47 FHS47 Ø19	19
24.76	71	370	2.91	4480	350		21
21.75	80	371	3.32	4175	330		22
20.45	86	372	3.54	4025	320		19
15.19	115	374	4.79	3380	250		
13.04	134	374	5.60	3065	270		
11.26	155	243	4.20	3355	260		
9.89	177	230	4.54	3230	230		
9.30	188	225	4.71	3175	230		
6.90	253	200	5.63	2910	240		
5.93	295	188	6.18	2780	210		
4.18	419	164	7.65	2505	150		
F57							600Nm
174.58	10	600	0.69	9200	790	FSS57 FMS57	29
139.34	13	600	0.86	9200	860		25
122.42	14	600	0.98	9200	930		
115.11	15	600	1.05	9200	990		
95.01	18	600	1.27	9200	1020		
85.46	20	600	1.41	9200	1050		



1750 Input Rpm

i	na [1/min]	Ma max [Nm]	Pe [kW]	FRa [N]	FRe [N]	 . . . 	m [kg]		
73.40	24	600	1.64	9200	1080	FNS57 FHS57	36		
51.72	34	600	2.33	9175	1040		29		
64.76	27	600	1.86	9200	840				
56.90	31	600	2.11	9200	870				
39.72	44	589	2.97	8170	860				
34.11	51	572	3.37	7685	900				
24.04	73	550	4.58	6600	860				
26.46	66	549	4.04	6920	490	FSS57 FMS57 FNS57 FHS57	30		
23.31	75	551	4.61	6485	500		Ø19	26	
19.11	92	553	5.63	5850	520			37	
								30	
18.01	97	553	5.99	5665	510	FSS57 FMS57 FNS57 FHS57	Ø24		
15.55	113	555	6.96	5225	510				
13.50	130	557	8.04	4820	540				
12.29	142	558	8.83	4570	520				
11.35	154	600	10.31	3555	300				
9.31	188	550	11.52	3405	290				
8.77	200	541	12.04	3330	270				
7.57	231	512	13.18	3195	300				
6.57	266	485	14.39	3065	370				
5.98	292	468	15.24	2990	360				
F67								820Nm	
187.70	9	820	0.88	10300	600			FSS67 FMS67 FNS67 FHS67	Ø19
151.68	12	820	1.08	10300	700				
133.62	13	820	1.23	10300	790				
109.55	16	797	1.46	10300	790				
103.23	17	791	1.54	10300	820				
89.11	20	767	1.73	10300	850				
77.36	23	748	1.94	10300	830				
70.42	25	732	2.08	10300	830				
64.95	27	722	2.24	10300	790				
57.22	31	706	2.48	10300	810				
46.91	37	680	2.91	10300	840				
44.20	40	671	3.05	10300	870				
38.16	46	653	3.44	10300	850				
33.12	53	636	3.86	10300	830				
30.15	58	626	4.16	10300	830				
28.44	62	619	4.24	10300	890				
18.10	97	622	6.69	10300	840				
16.12	109	623	7.52	10300	860				
14.46	121	625	8.42	10175	860	FSS67 FMS67 FNS67 FHS67	Ø24	35	
13.31	131	626	9.16	9885	830			39	
11.31	155	628	10.79	9330	800			41	
8.48	206	632	14.51	8410	770			33	
6.63	264	543	15.94	7565	520				
5.94	294	525	17.23	7320	520				
5.47	320	513	18.26	7140	500				
F77								1500Nm	
166.80	10	1500	1.81	15700	640	FSS77 FMS77 FNS77 FHS77	Ø19	58	
160.23	11	1500	1.88	15700	640			59	
147.56	12	1500	2.04	15700	620			67	
93.90	19	1500	3.21	15700	840			54	
83.63	21	1500	3.60	15700	840				
75.02	23	1500	4.02	15700	820				
59.38	29	1500	5.06	15700	850	FSS77 FMS77 FNS77 FHS77	Ø24	59	
53.26	33	1500	5.66	15700	880			60	
49.04	36	1500	6.15	15700	880			68	
41.67	42	1500	7.22	15700	850			55	
31.25	56	1500	9.64	15700	1330			64	

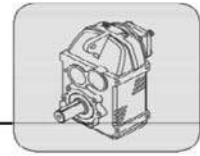


Helical Gear Units

Selection Tables [kW] F..S

1750 Input Rpm

i	na [1/min]	Ma max [Nm]	Pe [kW]	FRa [N]	FRc [N]		m [kg]
						FMS77 FNS77 FHS77	65 73 60
						Ø38	
24.73	71	1500	11.82	15700	1100		
21.49	81	1500	13.60	15700	1110		
16.56	106	1500	17.65	14135	1120		
15.64	112	1500	18.68	13805	1180	FSS77	65
14.06	124	1500	20.79	13185	1190	FMS77	67
12.28	143	1500	23.76	12440	1150	FNS77	75
9.07	193	1500	32.22	10845	1120	FHS77	61
7.83	223	1230	30.64	10240	870		
7.40	237	1207	31.79	10085	910		
5.81	301	1346	45.10	8355	870		
F87							3000Nm
162.37	11	3000	3.71	19800	650	FSS87	96
141.09	12	3000	4.27	19800	620	FMS87	106
						FNS87	116
						FHS87	91
108.77	16	3000	5.55	19800	700	FSS87	98
102.70	17	3000	5.87	19800	710	FMS87	108
92.34	19	3000	6.53	19800	690	FNS87	118
						FHS87	93
83.32	21	3000	7.23	19800	950		
78.67	22	3000	7.65	19800	970	FSS87	102
70.73	25	2940	8.34	19595	960	FMS87	112
61.76	28	2866	9.30	18680	1060	FNS87	122
53.48	33	2092	7.85	18730	1020	FHS87	97
46.47	38	2077	8.97	17655	990		
35.83	49	2088	11.71	15605	940		
24.98	70	2104	16.88	13035	2120	FSS87	110
19.61	89	2117	21.65	11430	2010	FMS87	120
						FNS87	130
						FHS87	105
32.21	54	2543	15.38	14680	1010	FSS87	107
28.41	62	2486	17.04	14005	1010	FMS87	117
25.94	67	2446	18.36	13535	990	FNS87	127
22.10	79	2420	21.34	12570	1000	FHS87	102
20.73	84	2423	22.76	12165	970		
18.69	94	2429	25.32	11500	1980		
16.55	106	2436	28.62	10765	1920		
14.76	119	2443	32.23	10070	1860		
13.23	132	2450	36.04	9440	1800	FSS87	115
9.76	179	2469	49.16	7795	1590	FMS87	125
8.04	218	2212	53.61	6195	1290	FNS87	135
7.12	246	2161	59.03	5865	1270	FHS87	110
6.35	276	2089	64.10	5650	1280		
5.69	308	2022	69.17	5470	1290		
4.20	417	1840	85.20	5030	1270		
F97							4300Nm
170.08	10	4300	5.08	29900	500	FSS97	174
149.98	12	4300	5.77	29900	490	FMS97	189
136.95	13	4300	6.31	29900	450	FNS97	204
						FHS97	164
109.42	16	4300	7.90	29900	1380		
116.67	15	4300	7.42	29900	1400	FSS97	177
98.66	18	4300	8.77	29690	1370	FMS97	192
87.40	20	4300	9.88	28170	1340	FNS97	207
77.93	22	4218	10.88	27010	1330	FHS97	167
64.52	27	4075	12.68	25270	1120		



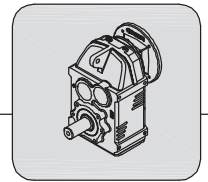
1750 Input Rpm

i	na [1/min]	Ma max [Nm]	Pe [kW]	FRa [N]	FRe [N]	 ... 	m [kg]
57.15	31	3985	13.97	24215	3320	FSS97	185
50.96	34	3900	15.36	23220	3240	FMS97	200
45.69	38	3823	16.79	22325	3260	FNS97	215
33.70	52	3616	21.48	20010	3150	FHS97	175
32.38	54	3588	21.59	19690	2210	FSS97	190
28.88	61	3514	23.72	18875	2200	FMS97	205
22.72	77	3365	28.86	17275	2180	FNS97	220
						FHS97	180
17.48	100	3350	37.30	15240	2920	FSS97	196
13.86	126	3369	47.42	13435	2810	FMS97	211
12.95	135	2332	35.10	14715	2390	FNS97	226
11.55	151	2917	49.26	11740	1690	FHS97	186
9.09	193	2715	58.24	10930	1820		
6.99	250	2049	57.09	11820	2290		
5.54	316	2339	82.39	9415	1840		

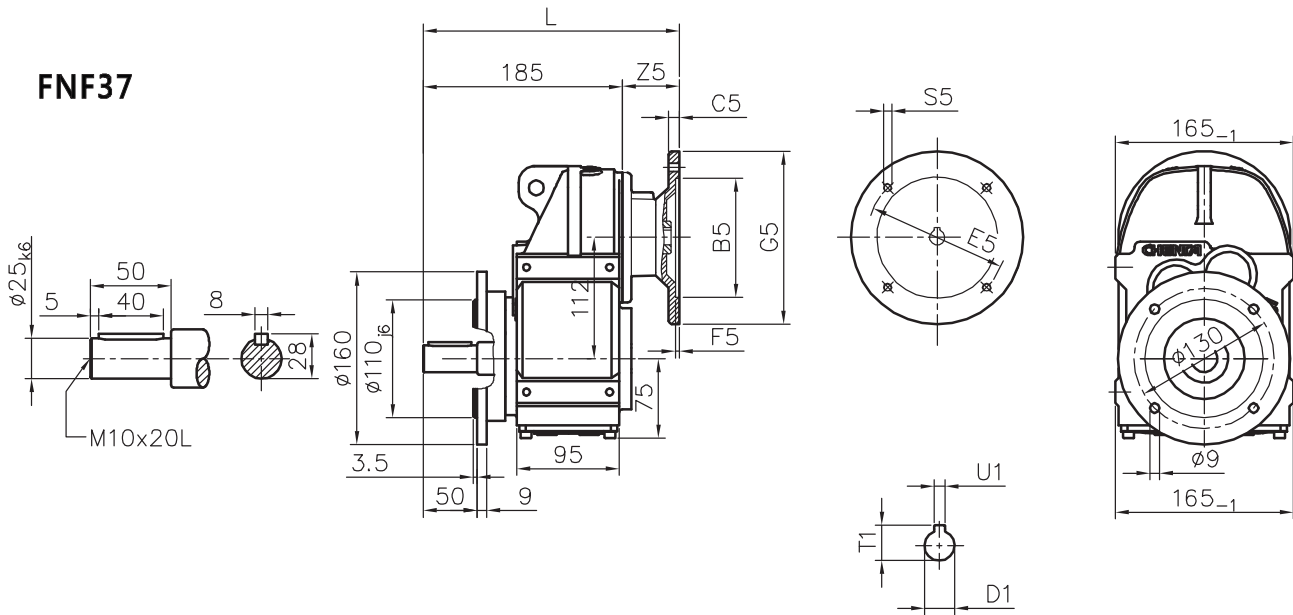


入力為馬達直結型之尺寸表，請參閱第123頁。

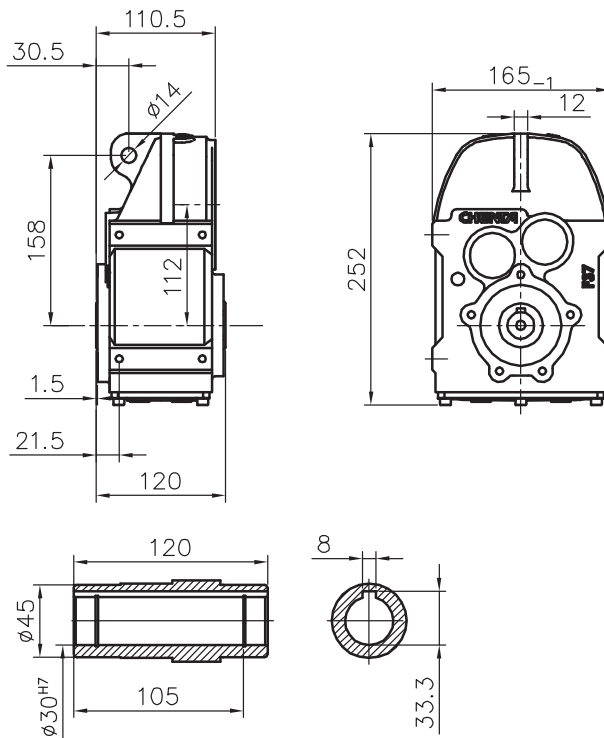
* 台灣東元馬達請參閱第122頁。



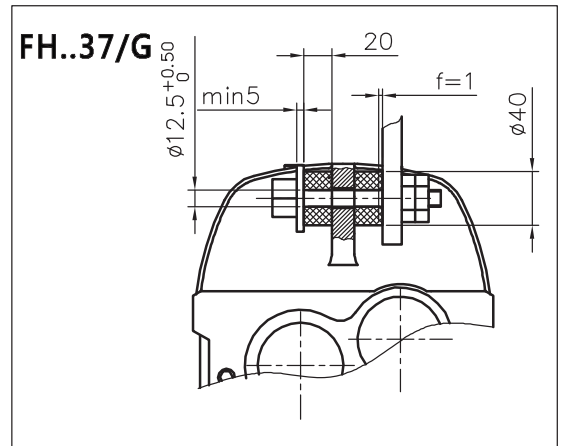
FNF37



FHF37



FH..37/G



	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63 *	95	10	115	4	140	238	M8	53	11	12.8	4
IEC 71	110	10	130	4	160	238	M8	53	14	16.3	5
IEC 80	130	12	165	5	200	256	M10	71	19	21.8	6
IEC 90	130	12	165	5	200	256	M10	71	24	27.3	8

* 台灣東元馬達請參閱第122頁。

[illegible]

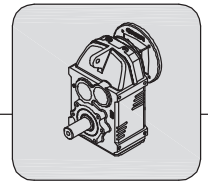
Technical drawing of the 1000 series motor showing four views with dimensions in mm:

- Front View (Top Left):** Shows the motor's profile. Total width is 162 mm. Total height is $\varnothing 200$ mm. The mounting bracket height is $\varnothing 130_{+6}^{-4}$ mm. The base height is 3.5 mm. The motor body width is 150 mm. The mounting bracket width is 27 mm.
- Top View (Bottom Left):** Shows the motor's top. Total width is 166 mm. Total height is $\varnothing 55$ mm. The mounting bracket width is 132 mm. The mounting bracket height is $\varnothing 35_{H7}^{+0.018}$ mm.
- Side View (Bottom Right):** Shows the motor's side. Total width is 10 mm. Total height is 38.3 mm.
- End View (Top Right):** Shows the motor's end. Total width is 180 $_{-1}^{+0}$ mm. Total height is 272 mm. The mounting bracket width is $\varnothing 11$ mm. The motor body width is $\varnothing 65$ mm.

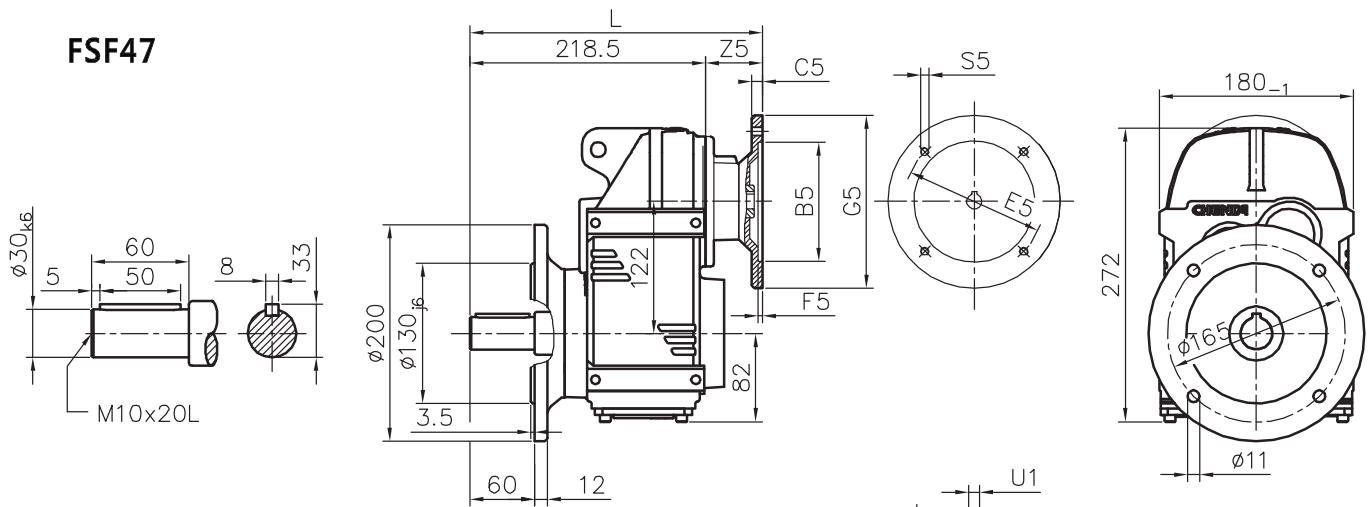
人力為馬達直結型之尺寸表，請參閱第123頁。

	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63 *	95	10	115	4	140	246	M8	53	11	12.8	4
IEC 71	110	10	130	4	160	246	M8	53	14	16.3	5
IEC 80	130	12	165	5	200	264	M10	71	19	21.8	6
IEC 90	130	12	165	5	200	264	M10	71	24	27.3	8

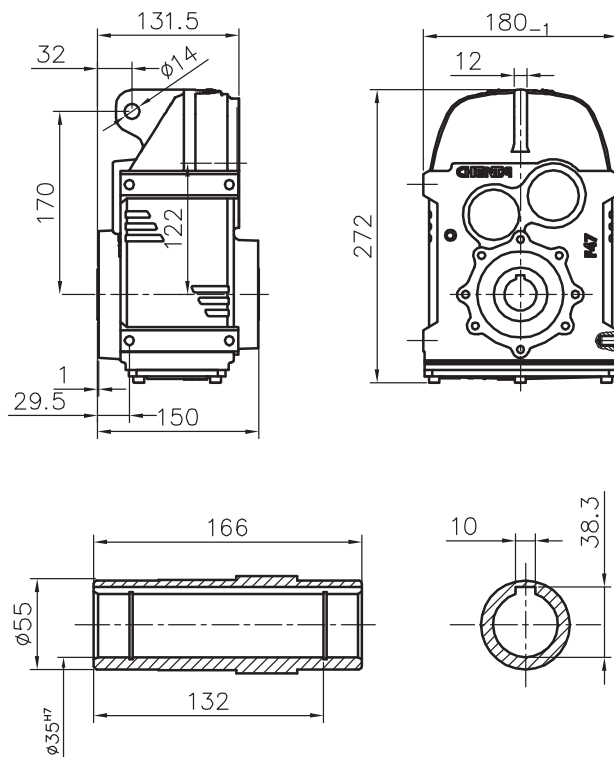
110



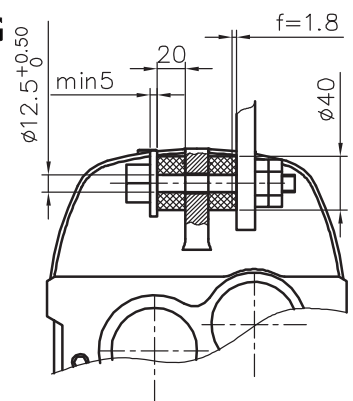
FSF47



FMF47

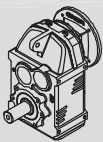


FH..47/G



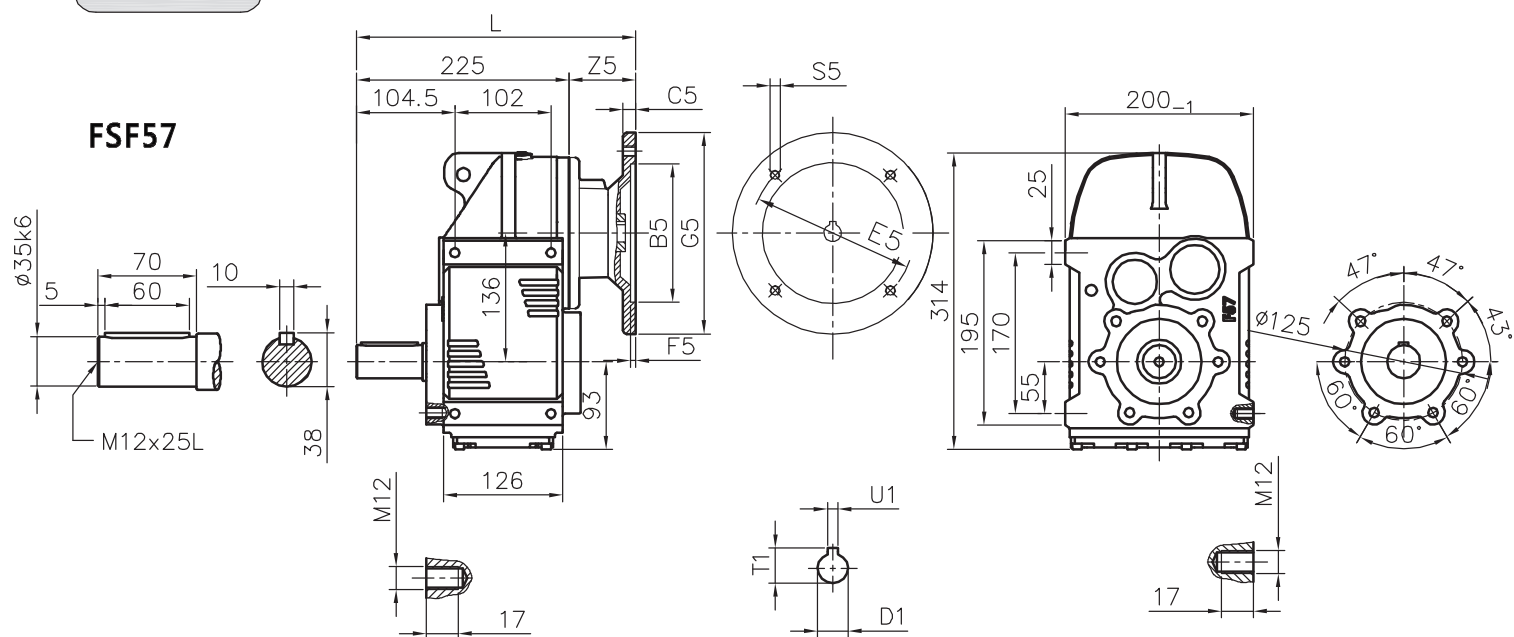
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63 *	95	10	115	4	140	271.5	M8	53	11	12.8	4
IEC 71	110	10	130	4	160	271.5	M8	53	14	16.3	5
IEC 80	130	12	165	5	200	289.5	M10	71	19	21.8	6
IEC 90	130	12	165	5	200	289.5	M10	71	24	27.3	8

* 台灣東元馬達請參閱第122頁。

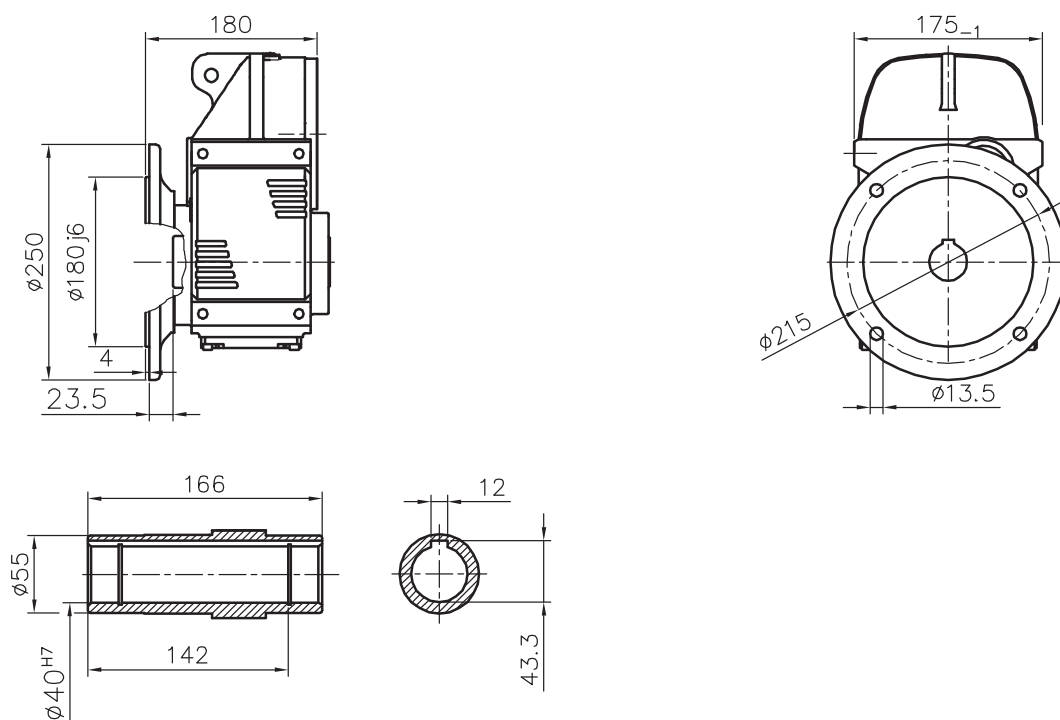


Parallel shaft helical Gear Dimension Sheets [mm]

FSF57



FMF57



For the dimensions concerning the solid input shaft, please refer to the table shown at page 124.

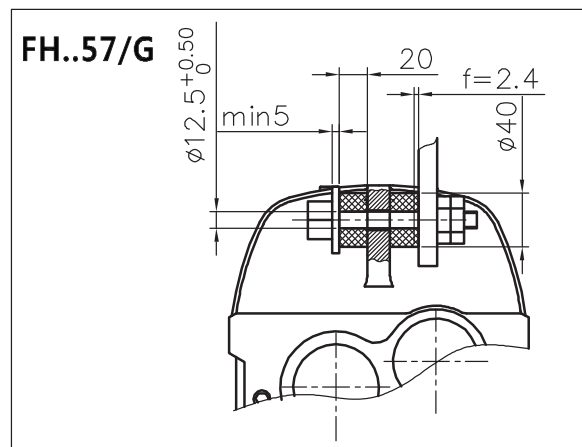
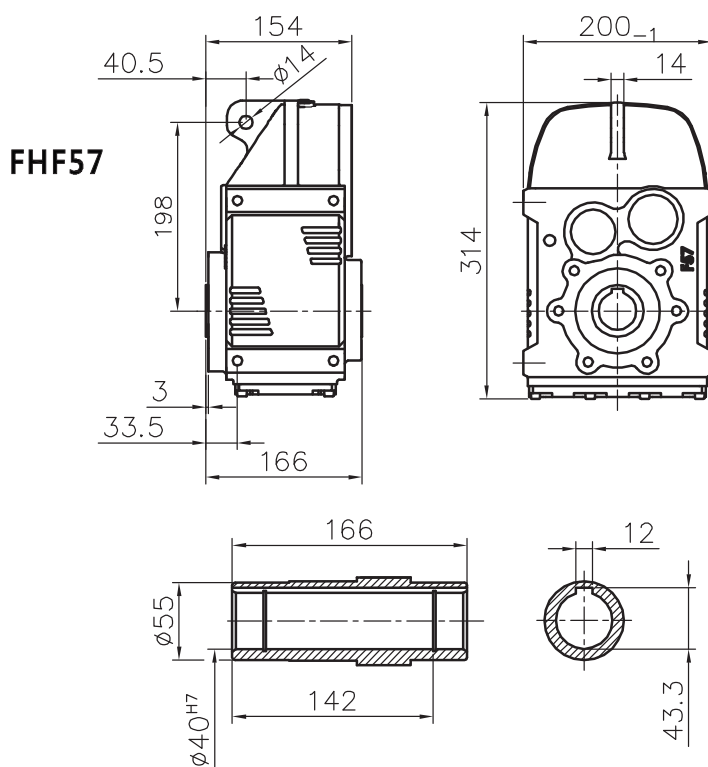
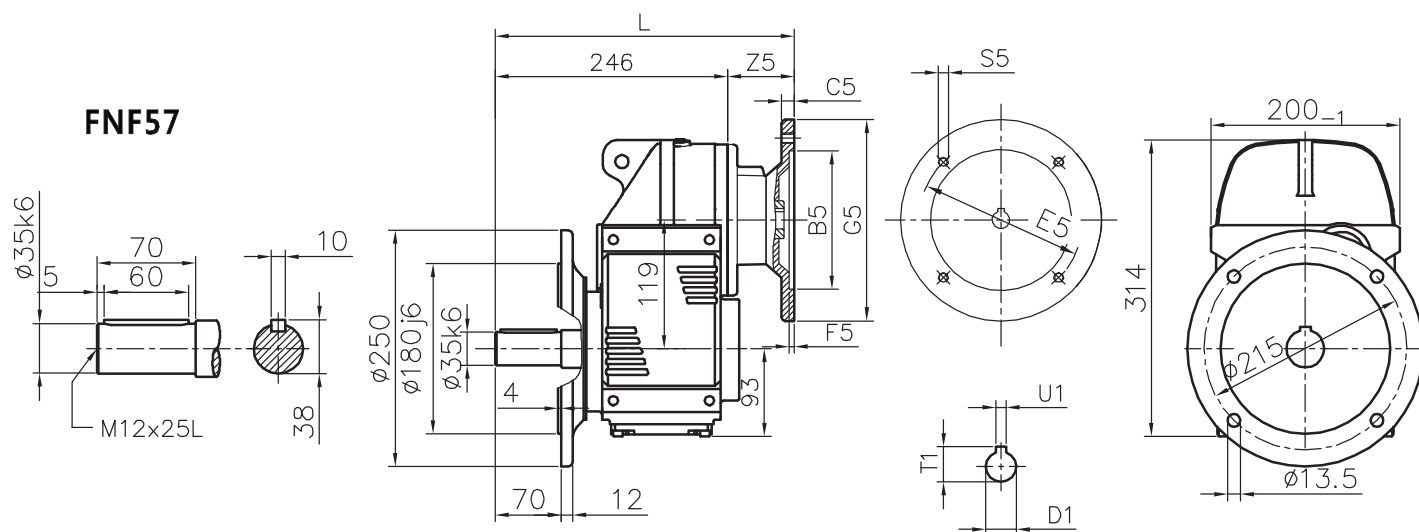
For the dimensions concerning the motor input, please refer to the table shown at page 123.

入力為實心軸之尺寸表，請參閱第124頁。

入力為馬達直結型之尺寸表，請參閱第123頁。

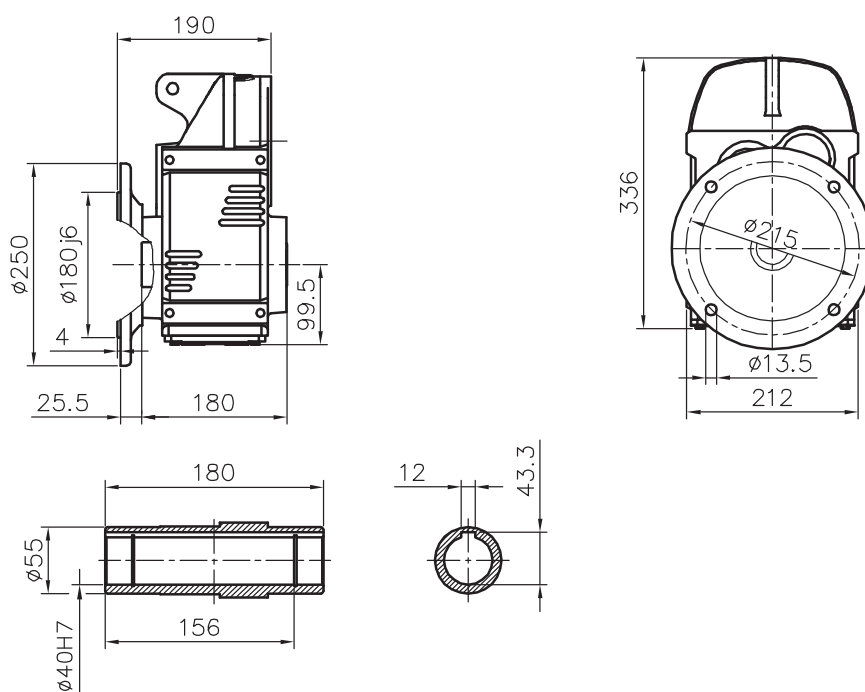
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63 *	95	10	115	4	140	271.5	M8	46.5	11	12.8	4
IEC 71	110	10	130	4	160	271.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	289.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	289.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	306	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	306	M12	81	28	31.3	8

* 台灣東元馬達請參閱第122頁。



	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63 *	95	10	115	4	140	292.5	M8	46.5	11	12.8	4
IEC 71	110	10	130	4	160	292.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	310.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	310.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	327	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	327	M12	81	28	31.3	8

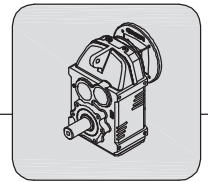
* 台灣東元馬達請參閱第122頁。

**FMF67**

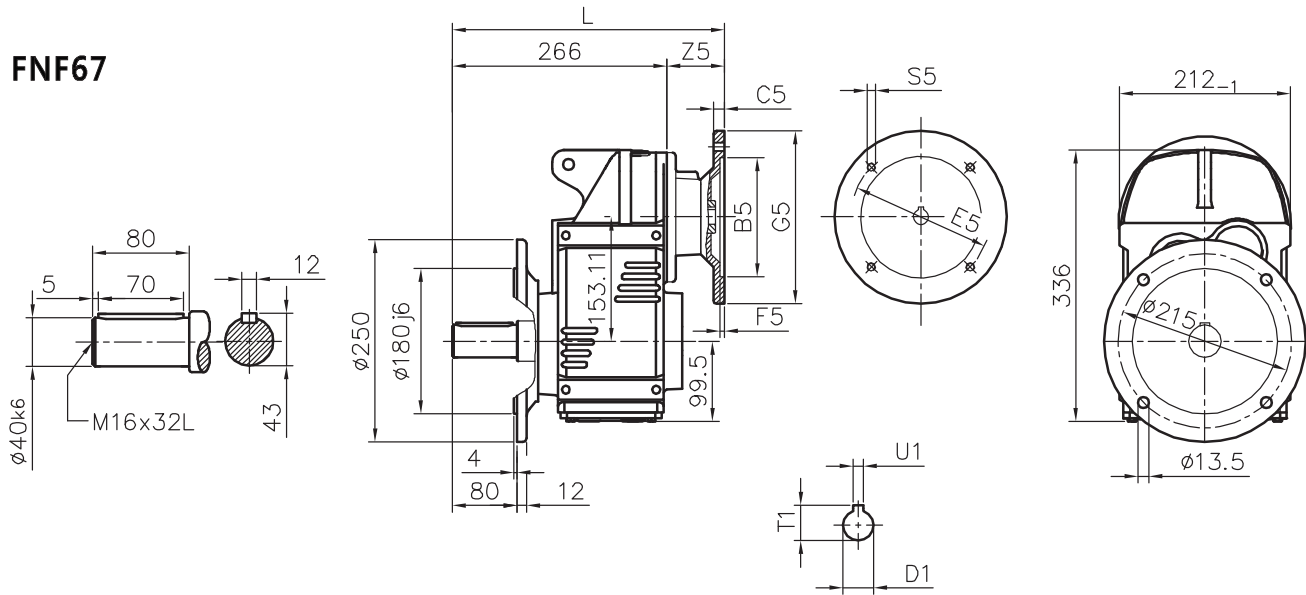
入力為馬達直結型之尺寸表，請參閱第123頁。

	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63 *	95	10	115	4	140	290.5	M8	46.5	11	12.8	4
IEC 71	110	10	130	4	160	290.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	308.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	308.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	325	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	325	M12	81	28	31.3	8

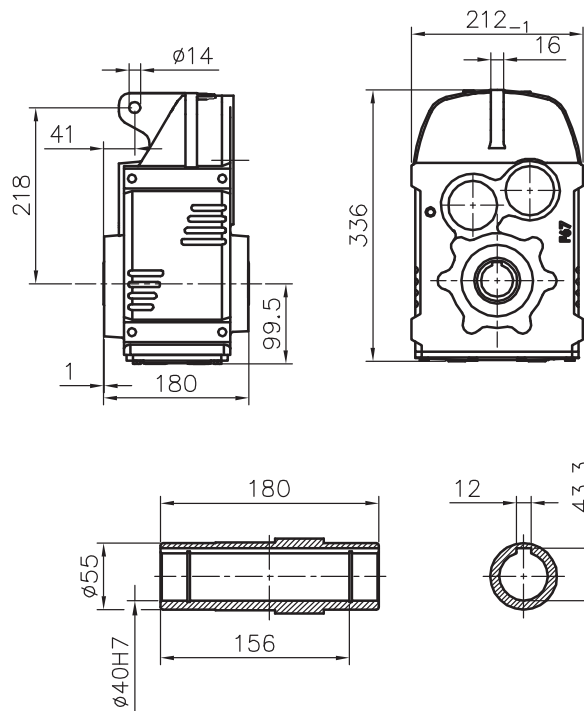
* 台灣東元馬達請參閱第122頁。



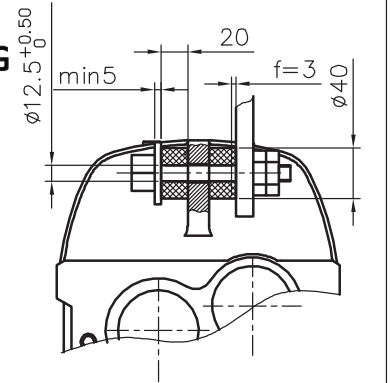
FNF67



FHF67

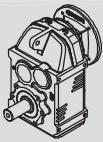


FH67../G



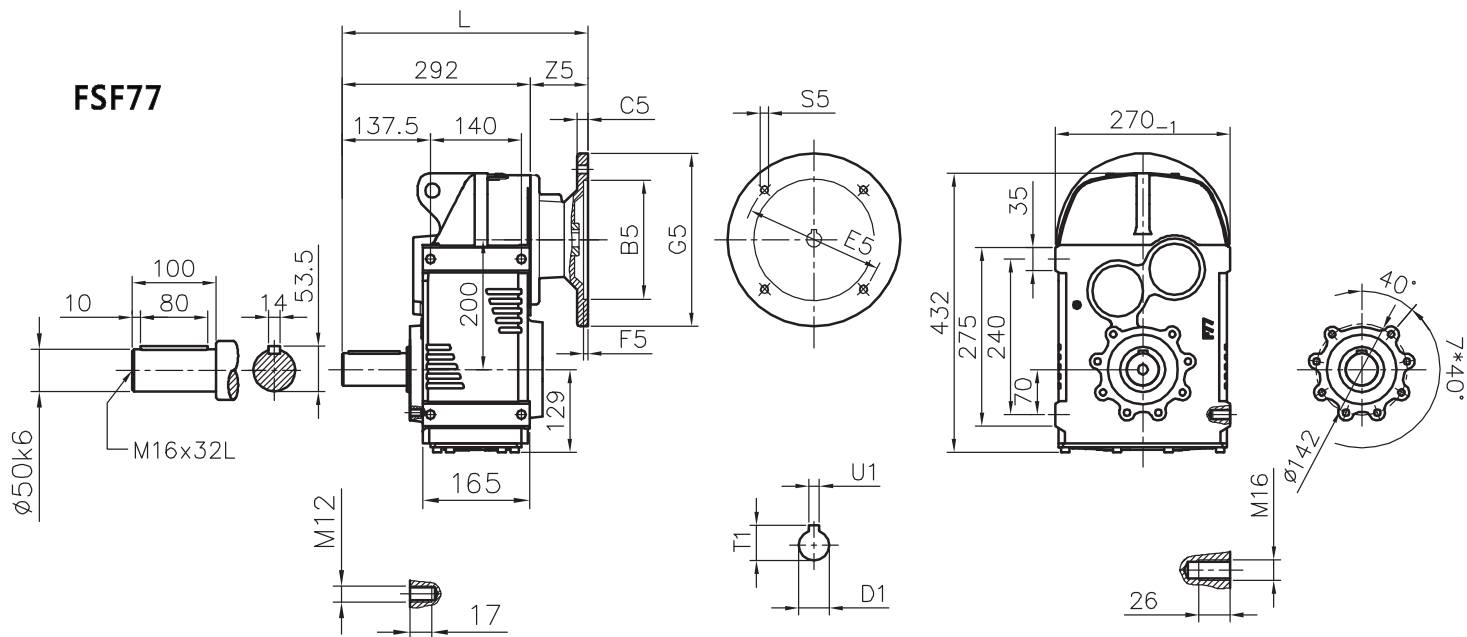
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63 *	95	10	115	4	140	312.5	M8	46.5	11	12.8	4
IEC 71	110	10	130	4	160	312.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	330.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	330.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	347	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	347	M12	81	28	31.3	8

* 台灣東元馬達請參閱第122頁。

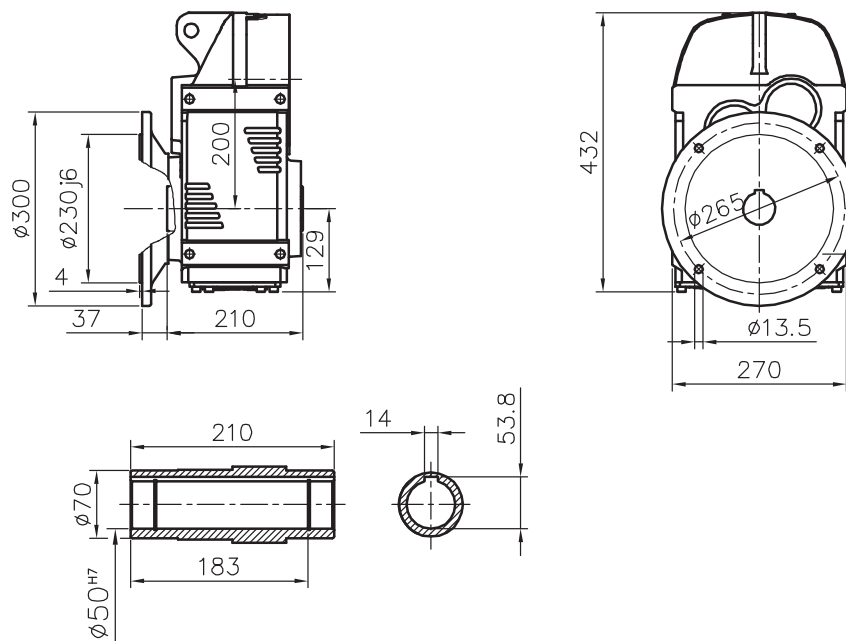


Parallel shaft helical Gear Dimension Sheets [mm]

FSF77



FMF77



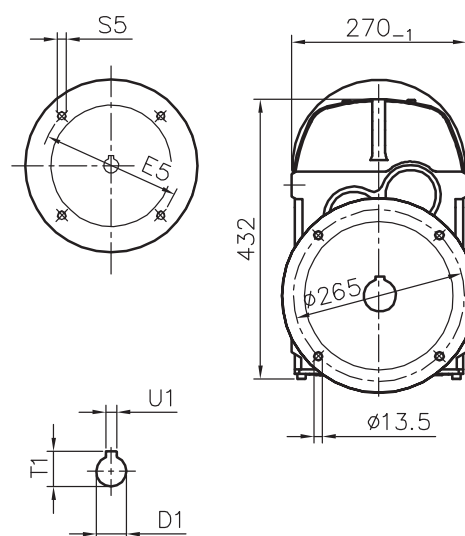
For the dimensions concerning the solid input shaft, please refer to the table shown at page 124.

For the dimensions concerning the motor input, please refer to the table shown at page 123.

入力為實心軸之尺寸表・請參閱第124頁。

入力為馬達直結型之尺寸表・請參閱第123頁。

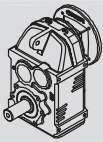
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 80	130	12	165	5	200	351	M10	59	19	21.8	6
IEC 90	130	12	165	5	200	351	M10	59	24	27.3	8
IEC 100	180	15	215	5	250	367.5	M12	75.5	28	31.3	8
IEC 112	180	15	215	5	250	367.5	M12	75.5	28	31.3	8
IEC 132	230	16	265	6	300	416	M12	124	38	41.3	10

[illegible]

The technical drawing illustrates the dimensions of the M700 engine through four distinct views:

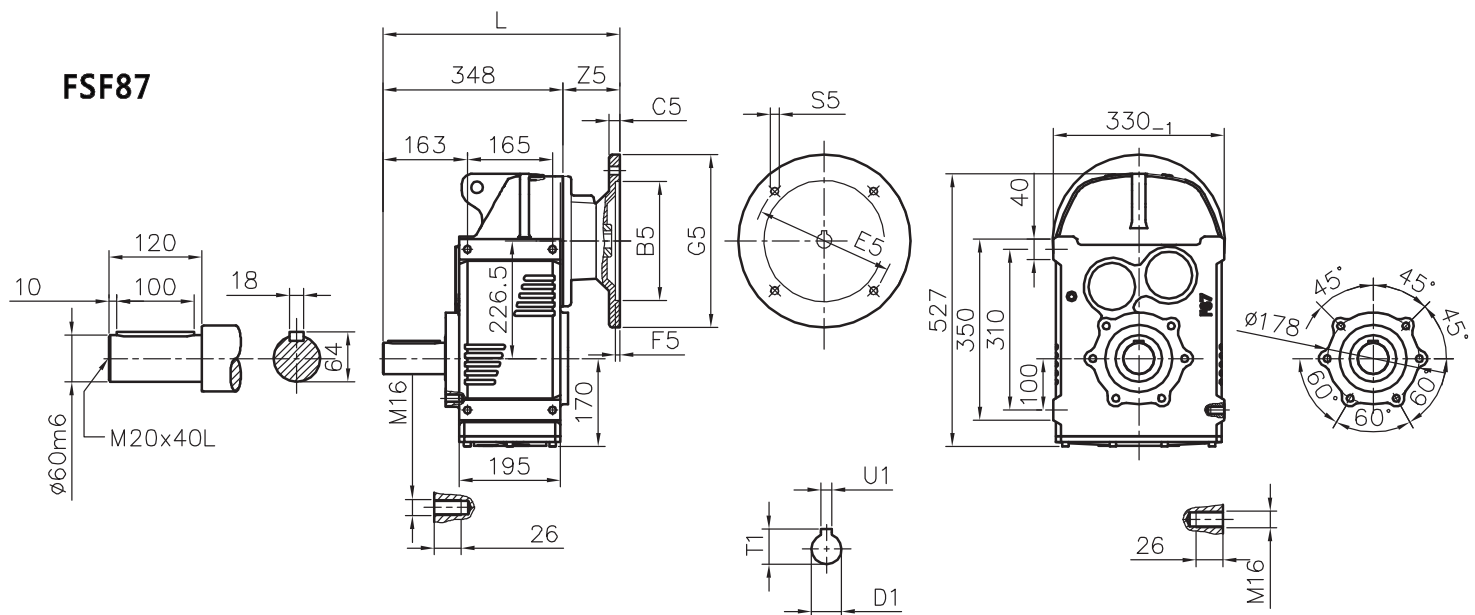
- Front View (Top Left):** Shows the engine's profile with a total width of 210 mm. The mounting bracket at the top has a height of 37.5 mm and a hole diameter of $\phi 22$. The main body height is 278 mm, and the base flange thickness is 4 mm. A central vertical dimension of 200 mm is indicated.
- Side View (Bottom Left):** Displays the engine from the side with a total length of 210 mm. The mounting bracket height is 70 mm ($\phi 70$). The main body length is 183 mm, and the base flange thickness is 50 mm ($\phi 50_{H7}$).
- Top View (Top Right):** Provides a plan view of the engine head, showing a total width of 270 mm (+1/-1) and a distance of 20 mm between the mounting points.
- Bottom View (Bottom Right):** Shows the underside of the engine, highlighting a central circular feature with a diameter of 14 mm and a total height of 53.8 mm.

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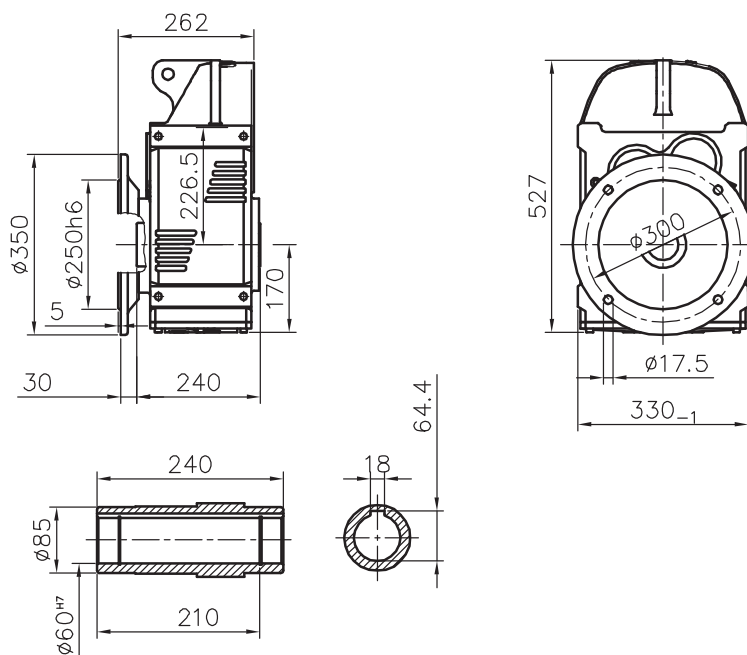


Parallel shaft helical Gear Dimension Sheets [mm]

FSF87



FMF87



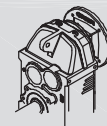
For the dimensions concerning the solid input shaft, please refer to the table shown at page 124.

For the dimensions concerning the motor input, please refer to the table shown at page 123.

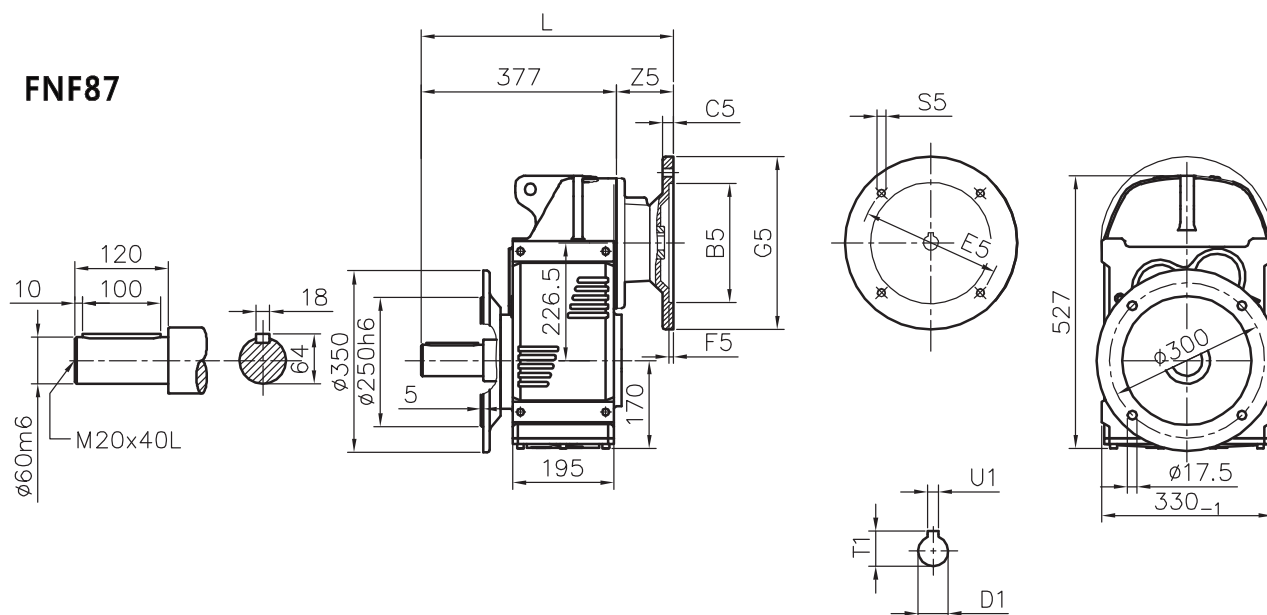
入力為實心軸之尺寸表・請參閱第124頁。

入力為馬達直結型之尺寸表・請參閱第123頁。

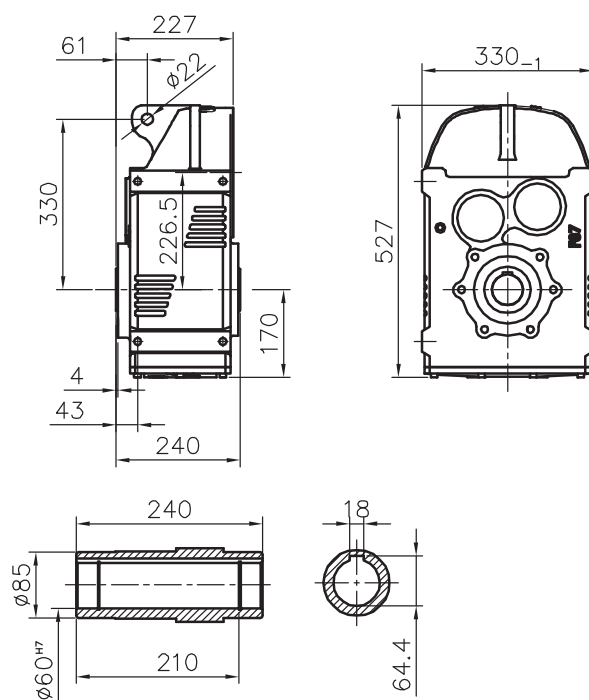
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 80	130	12	165	5	200	397.5	M10	49.5	19	21.8	6
IEC 90	130	12	165	5	200	397.5	M10	49.5	24	27.3	8
IEC 100	180	15	215	5	250	414	M12	66	28	31.3	8
IEC 112	180	15	215	5	250	414	M12	66	28	31.3	8
IEC 132	230	16	265	6	300	462.5	M12	114.5	38	41.3	10
IEC 160	250	20	300	6	350	498.5	M16	150.5	42	45.3	12



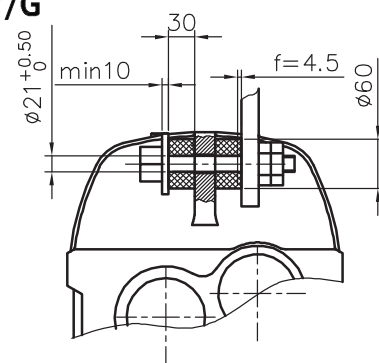
FNF87



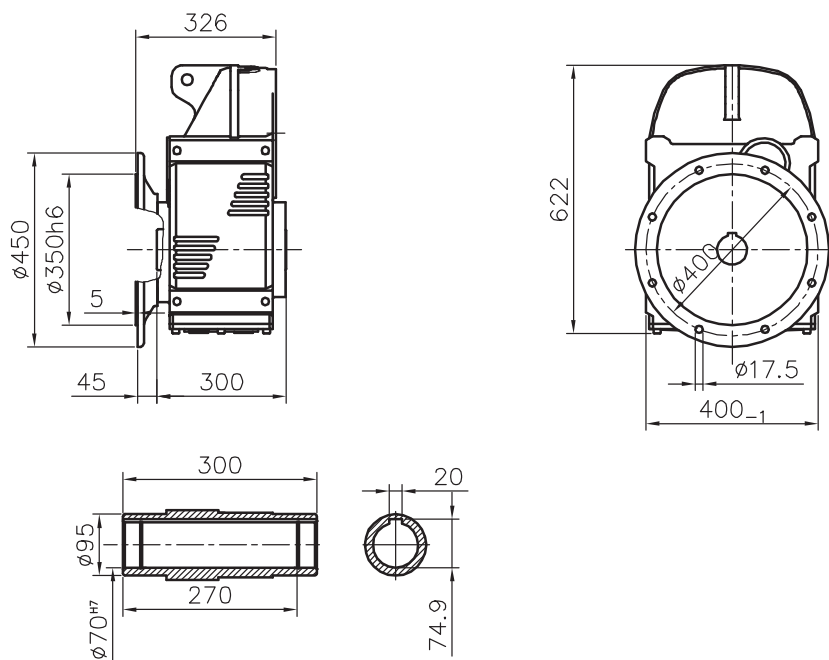
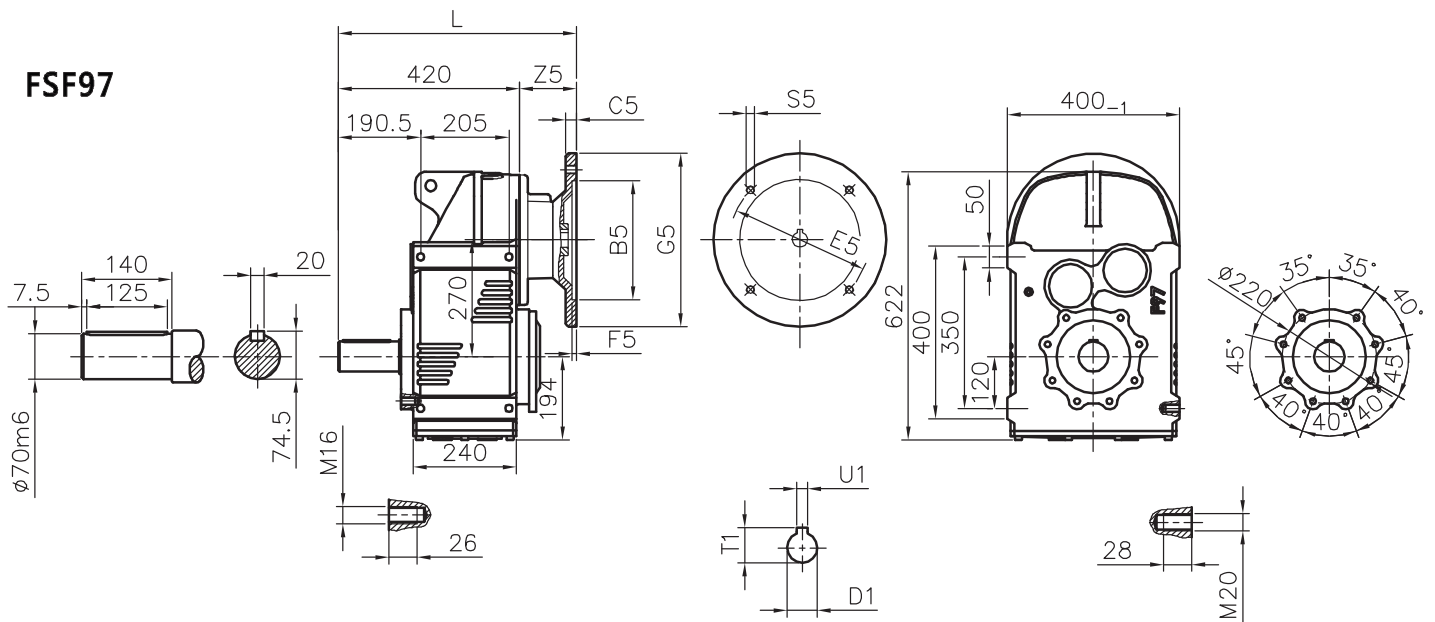
FHF87



FH..87/G



	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 80	130	12	165	5	200	426.5	M10	49.5	19	21.8	6
IEC 90	130	12	165	5	200	426.5	M10	49.5	24	27.3	8
IEC 100	180	15	215	5	250	443	M12	66	28	31.3	8
IEC 112	180	15	215	5	250	443	M12	66	28	31.3	8
IEC 132	230	16	265	6	300	491.5	M12	114.5	38	41.3	10
IEC 160	250	20	300	6	350	527.5	M16	150.5	42	45.3	12



For the dimensions concerning the solid input shaft, please refer to the table shown at page 124.

For the dimensions concerning the motor input, please refer to the table shown at page 123.

入力為實心軸之尺寸表，請參閱第124頁。

入力為馬達直結型之尺寸表，請參閱第123頁。

	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 100	180	15	215	5	250	482	M12	62	28	31.3	8
IEC 112	180	15	215	5	250	482	M12	62	28	31.3	8
IEC 132	230	16	265	6	300	526.5	M12	106.5	38	41.3	10
IEC 160	250	20	300	6	350	562.5	M16	142.5	42	45.3	12
IEC 180 *	250	20	300	6	350	571.5	M16	151.5	48	51.8	14

* 台灣東元馬達請參閱第122頁。

FNF97

Technical drawing of the FNF97 fire extinguisher, showing side, front, and top views with dimensions in mm.

Side View Dimensions:

- Overall length: L
- Distance from base to top of main body: 461
- Top flange thickness: Z5
- Top flange diameter: C5
- Body diameter: $\varnothing 450$
- Internal diameter: $\varnothing 350_{h6}$
- Base diameter: 5
- Base width: 140
- Body width: 270
- Body height: 194
- Top flange height: B5
- Top flange diameter: C5
- Top flange thickness: F5
- Top flange diameter: S5
- Top flange diameter: E5
- Top flange diameter: $\varnothing 400$
- Top flange diameter: $\varnothing 17.5$
- Top flange diameter: 400₋₁
- Top flange diameter: 622
- Top flange diameter: U1
- Top flange diameter: T1
- Top flange diameter: D1

Front View Dimensions:

- Overall width: 140
- Distance from base to top of main body: 461
- Top flange thickness: Z5
- Top flange diameter: C5
- Body diameter: $\varnothing 450$
- Internal diameter: $\varnothing 350_{h6}$
- Base diameter: 5
- Base width: 140
- Body width: 270
- Body height: 194
- Top flange height: B5
- Top flange diameter: C5
- Top flange thickness: F5
- Top flange diameter: S5
- Top flange diameter: E5
- Top flange diameter: $\varnothing 400$
- Top flange diameter: $\varnothing 17.5$
- Top flange diameter: 400₋₁
- Top flange diameter: 622
- Top flange diameter: U1
- Top flange diameter: T1
- Top flange diameter: D1

Top View Dimensions:

- Overall diameter: $\varnothing 450$
- Internal diameter: $\varnothing 350_{h6}$
- Base diameter: 5
- Base width: 140
- Body width: 270
- Body height: 194
- Top flange height: B5
- Top flange diameter: C5
- Top flange thickness: F5
- Top flange diameter: S5
- Top flange diameter: E5
- Top flange diameter: $\varnothing 400$
- Top flange diameter: $\varnothing 17.5$
- Top flange diameter: 400₋₁
- Top flange diameter: 622
- Top flange diameter: U1
- Top flange diameter: T1
- Top flange diameter: D1

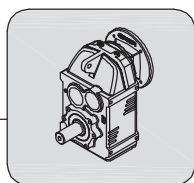
Technical drawing of a 1000W electric heater, showing four views with dimensions in millimeters (mm):

- Front View (Top Left):** Shows the heater's profile. Dimensions include a top flange width of 70 mm, a main body height of 395 mm, a base height of 46.5 mm, a total width of 300 mm, and a central heating element width of 270 mm. A detail callout shows a hole with a diameter of $\phi 26$.
- Top View (Top Right):** Shows the heater from above. Dimensions include a top flange width of 160 mm (with a -1 tolerance), a central mounting hole diameter of 30 mm, and a total height of 622 mm. The model number "P7" is visible on the right side.
- Side View (Bottom Left):** Shows the heater's side profile. Dimensions include a total width of 300 mm, a central heating element width of 270 mm, and a base diameter of $\phi 70^{H7}$.
- Cross-section View (Bottom Right):** Shows the internal structure. Dimensions include a top flange thickness of 20 mm and a total height of 74.9 mm.

FH..97/G

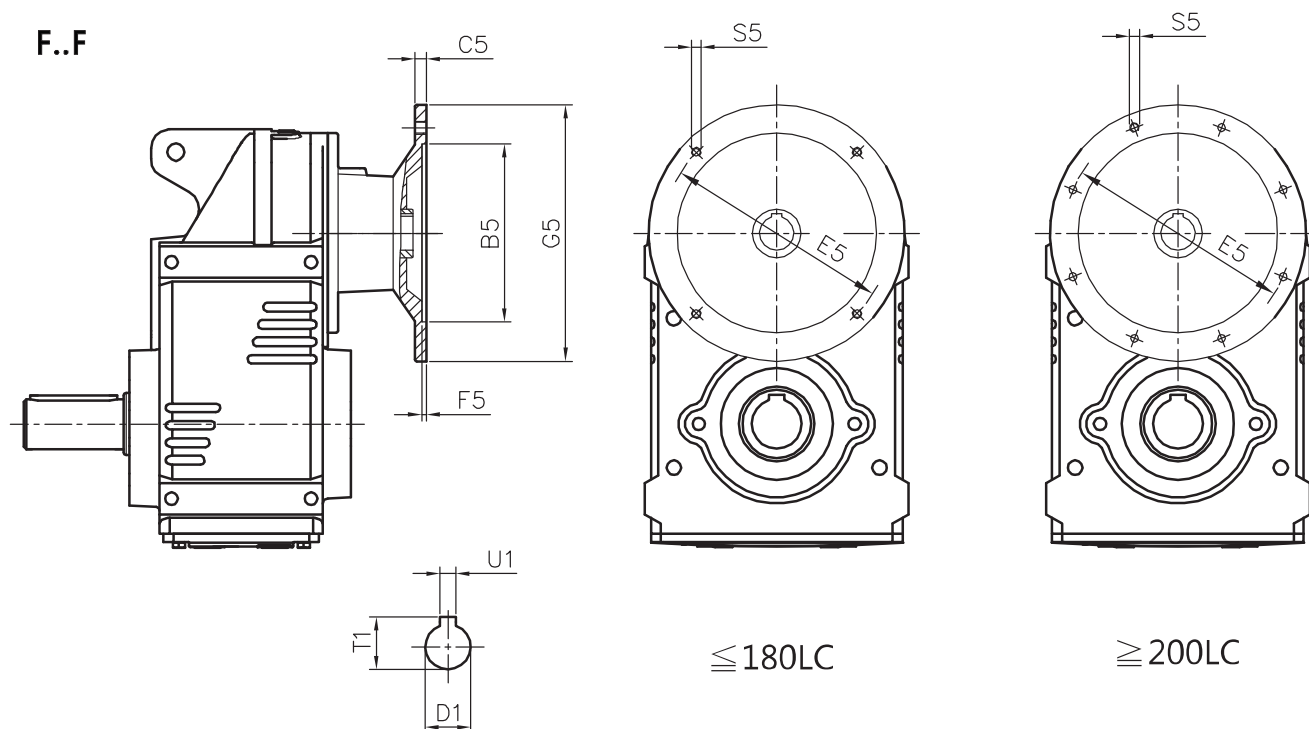
	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 100	180	15	215	5	250	523	M12	62	28	31.3	8
IEC 112	180	15	215	5	250	523	M12	62	28	31.3	8
IEC 132	230	16	265	6	300	567.5	M12	106.5	38	41.3	10
IEC 160	250	20	300	6	350	603.5	M16	142.5	42	45.3	12
IEC 180 *	250	20	300	6	350	612.5	M16	151.5	48	51.8	14

121



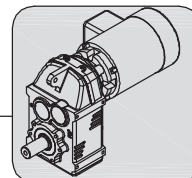
Parallel shaft helical Gear Units Dimension Sheets[mm]

法蘭入力 Input Flanges

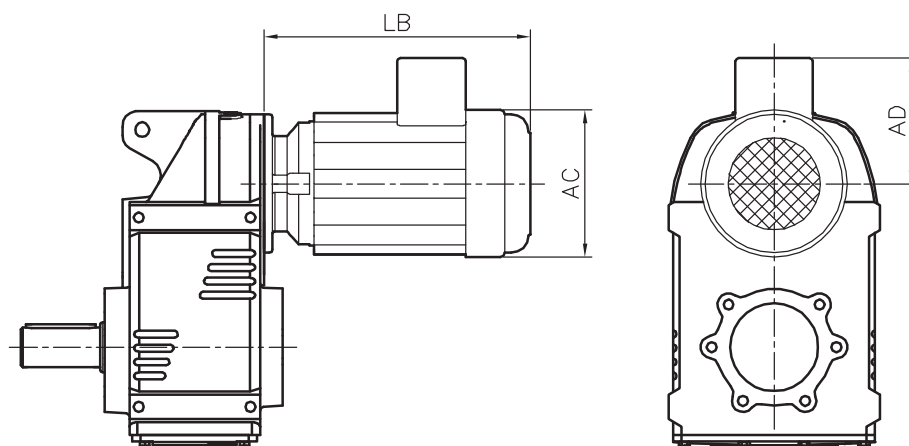


輸入馬力 HP - 4P	IEC Frame	B5	C5	E5	F5	G5	S5	D1	T1	U1
0.25	63	110	10	130	4	160	M8	11	12.8	4
0.5	71	110	10	130	4	160	M8	14	16.3	5
1	80	130	12	165	5	200	M10	19	21.8	6
2	90L	130	12	165	5	200	M10	24	27.3	8
3	100L	180	15	215	5	250	M12	28	31.3	8
5	112M	180	15	215	5	250	M12	28	31.3	8
7.5	132S	230	16	265	6	300	M12	38	41.3	10
10	132M	230	16	265	6	300	M12	38	41.3	10
15	160M	250	20	300	6	350	M16	42	45.3	12
20	160L	250	20	300	6	350	M16	42	45.3	12
25 / 30	180MC	300	20	350	6	400	M16	48	51.8	14
40	180LC	300	20	350	6	400	M16	55	59.3	16
50 / 60	200LC	350	20	400	6	450	M16	60	64.4	18

This dimensional table is with specific frame sizes for TECO motor.
International IEC motor dimensions are referred to the specification as below.
本表適用於台灣東元馬達(4P)，如使用國際 IEC馬達，請參照各型號尺寸圖下方表格。

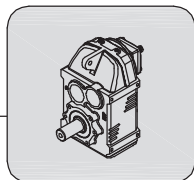


馬達直結
Couple With motor
F..M



	MOTOR	AC	AD	LB
F..37	63	120	108	231.5
	71	136	116	247.5
	80	160	127	309
	90	176	139	354.5
F..47	63	120	108	231.5
	71	136	116	247.5
	80	160	127	309
	90	176	139	354.5
F..57	63	120	108	225
	71	136	116	241
	80	160	127	302.5
	90	176	139	348
	100	198	149	396
	112	220	167	408
F..67	63	120	108	225
	71	136	116	241
	80	160	127	302.5
	90	176	139	348
	100	198	149	396
	112	220	167	408
F..77	80	160	127	297
	90	176	139	342.5
	100	198	149	390.5
	112	220	167	402.5
	132S	258	184.5	441

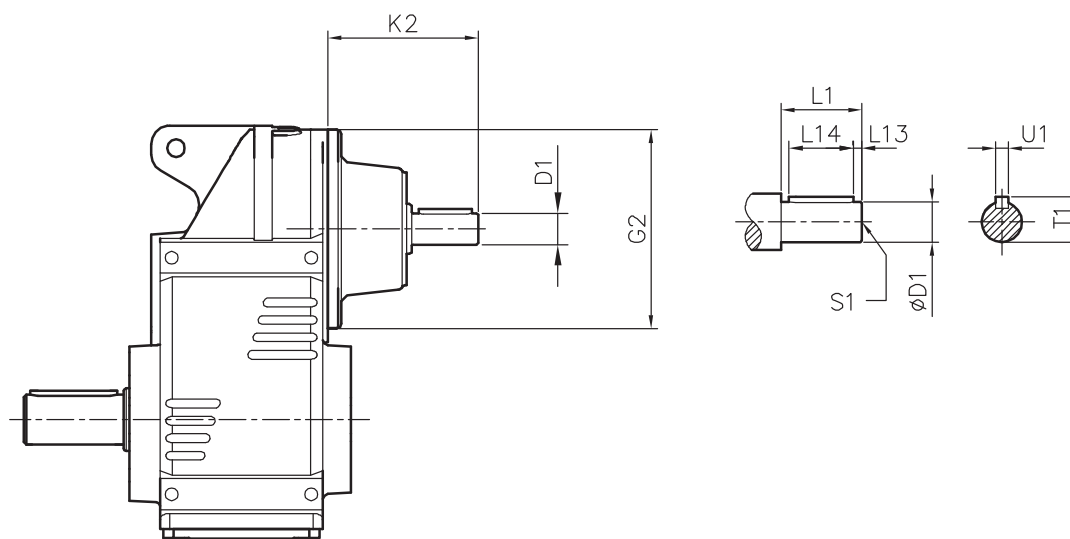
	MOTOR	AC	AD	LB
F..87	80	160	127	287.5
	90	176	139	333
	100	198	149	381
	112	220	167	393
	132S	258	184.5	431.5
	132M	258	184.5	469.5
	160M	343	263	550
F..97	100	198	149	377
	112	220	167	389
	132S	258	184.5	423.5
	132M	258	184.5	461.5
	160M	334	263	542
	160L	334	286	586
	180MC	382	305	607.5



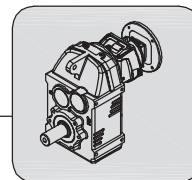
Parallel shaft helical Gear Units

Dimension Sheets [mm]

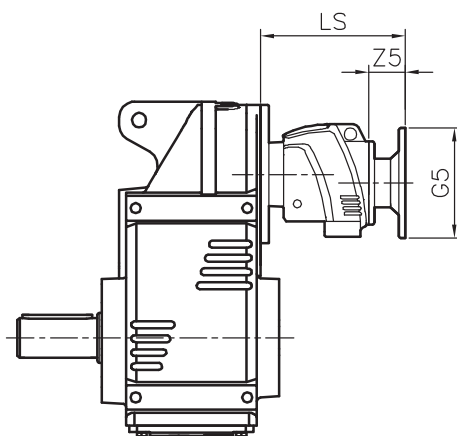
實心入力 Solid Input Shaft F..S



	D1	L1	L13	L14	T1	U1	S1	K2	G2	FIG
F..37	16k6	40	4	32	18	5	M5*10L	88	120	1
	19k6	40	4	32	21.5	6	M6*12L	90.5	120	1
F..47	16k6	40	4	32	18	5	M5*10L	88	120	1
	19k6	40	4	32	21.5	6	M6*12L	90.5	120	1
F..57	19k6	40	4	32	21.5	6	M6*12L	95	160	2
	24k6	50	5	40	27	8	M8*16L	119.5	160	2
F..67	19k6	40	4	32	21.5	6	M6*12L	95	160	2
	24k6	50	5	40	27	8	M8*16L	119.5	160	2
F..77	19k6	40	4	32	21.5	6	M6*12L	89.5	200	2
	19k6	40	4	32	21.5	6	M6*12L	106	200	2
	24k6	50	5	40	27	8	M8*16L	114	200	2
	38k6	80	5	70	41	10	M12*24L	177	200	2
F..87	19k6	40	4	32	21.5	6	M6*12L	95.5	250	2
	28k6	60	5	50	31	8	M8*16L	114.5	250	2
	38k6	80	5	70	41	10	M12*24L	167.5	250	2
	42k6	110	10	70	45	12	M16*32L	240.5	250	2
F..97	28k6	60	5	50	31	8	M8*16L	110.5	300	2
	38k6	80	5	70	41	10	M12*24L	159.5	300	2
	42k6	110	10	70	45	12	M16*32L	232.5	300	2
	48k6	110	10	80	51.5	14	M16*32L	237.5	300	2



雙連體多段
Multi-Staged Gear Unit



		LS	Z5	G5
F..37R17	IEC 56	181.5	56.5	80
	IEC 63	181.5	56.5	90
	IEC 71	181.5	56.5	105
	IEC 80	196	71	120
F..47R17	IEC 56	181.5	56.5	80
	IEC 63	181.5	56.5	90
	IEC 71	181.5	56.5	105
	IEC 80	196	71	120
F..57R37	IEC 63	217	53	140
	IEC 71	217	53	160
	IEC 80	235	71	200
	IEC 90	235	71	200
F..67R37	IEC 63	217	53	140
	IEC 71	217	53	160
	IEC 80	235	71	200
	IEC 90	235	71	200
F..77R37	IEC 63	211.5	53	140
	IEC 71	211.5	53	160
	IEC 80	229.5	71	200
	IEC 90	229.5	71	200
F..87R57	IEC 63	241.5	46.5	140
	IEC 71	241.5	46.5	160
	IEC 80	259.5	64.5	200
	IEC 90	259.5	64.5	200
	IEC 100	276	81	250
	IEC 112	276	81	250
F..97R57	IEC 63	233.5	46.5	140
	IEC 71	233.5	46.5	160
	IEC 80	251.5	64.5	200
	IEC 90	215.5	64.5	200
	IEC 100	268	81	250
	IEC 112	268	81	250