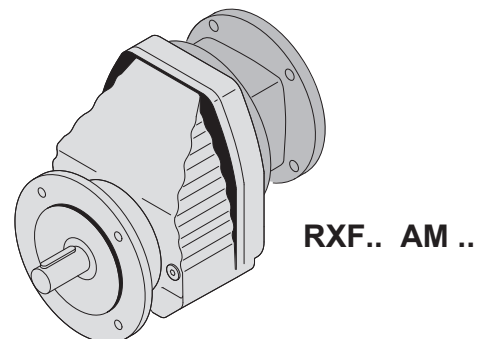
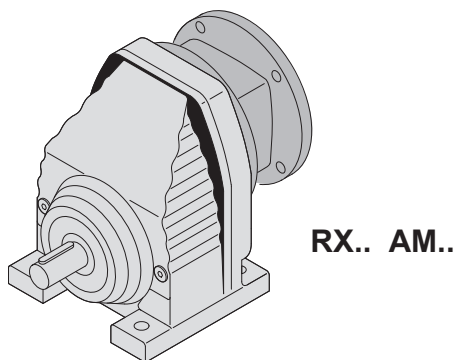
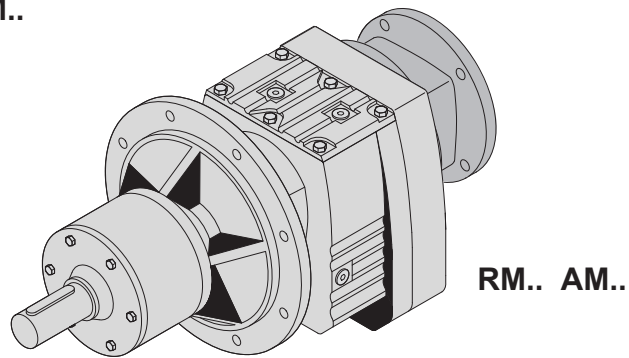
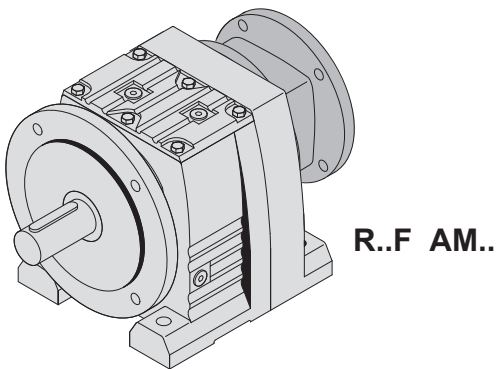
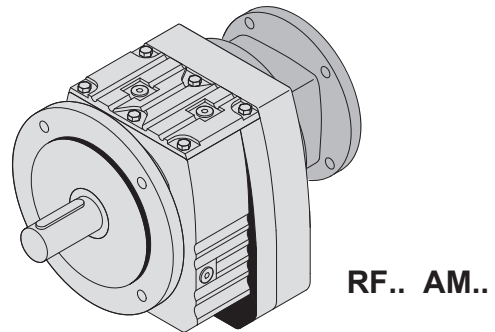
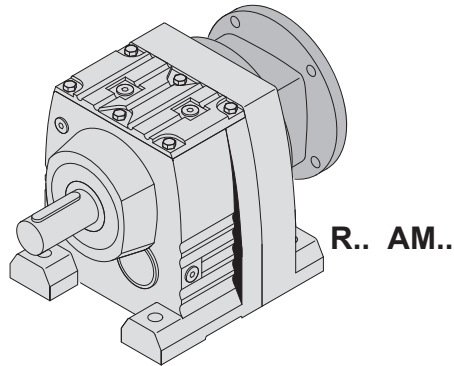


8 R / RX - Helical


8.1 R/RX.. AM



8

50392AXX


8.1.1 RX57

RX57, $n_e = 1700$ rpm						610 lb-in					
Stages	i [ratio]	n_a [rpm]	T_a max [lb-in]	F_{Ra} [lb]	Φ (/R) [']	AM					
						56	143	145	182	184	213/215
 RX57 1	1.30	1310	555	0	-						
	1.48	1150	600	0	-						
	1.65	1030	610	27	-						
	1.92	885	610	126	-						
	2.04	833	610	166	-						
	2.37	717	610	260	-						
	2.64	644	610	325	-						
	2.91	584	590	405	-						
	3.14	541	575	480	-						
	3.55	479	610	500	-						
	3.79	449	610	515	-						
	4.35	391	600	550	-						
	5.07	335	315	635	-						
5.50	309	345	650	-							

Weight [lbs]		Stages	AM					
			56	143	145	182	184	213/215
RX57	NEMA	1	29	33	33	41	41	53
			71	80	90	100	112	132S/M
	IEC	1	28	33	33	43	43	59

RXF57: + 4.0 lbs


8.1.2 RX67

RX67, $n_e = 1700$ rpm						1180 lb-in					
Stages	i [ratio]	n_a [rpm]	T_a max [lb-in]	F_{Ra} [lb]	Φ (/R) [']	AM					
						56	143	145	182	184	213/215
 RX67 1	1.40	1215	920	0	-						
	1.61	1055	1000	0	-						
	1.86	914	1110	0	-						
	2.04	833	1180	0	-						
	2.40	708	1080	235	-						
	2.54	669	1040	340	-						
	2.89	588	930	545	-						
	3.20	531	880	580	-						
	3.77	451	765	640	-						
	4.30	395	705	685	-						
	4.53	375	725	700	-						
	5.18	328	660	745	-						
	6.07	280	380	840	-						

Weight [lbs]		Stages	AM					
			56	143	145	182	184	213/215
RX67	NEMA	1	34	38	39	47	47	59
			71	80	90	100	112	132S/M
	IEC	1	34	38	39	49	49	64


RXF67: + 9.0 lbs

8.1.3 RX77

RX77, $n_e = 1700$ rpm						1900 lb-in					
Stages	i [ratio]	n_a [rpm]	$T_{a \max}$ [lb-in]	F_{Ra} [lb]	ϕ (/R) [']	AM					
						56	143	145	182	184	213/215
 1	1.42	1195	1370	0	-						
	1.67	1020	1530	0	-						
	1.88	904	1650	0	-						
	2.13	798	1760	0	-						
	2.43	700	1900	0	-						
	2.70	630	1900	121	-						
	3.08	552	1700	440	-						
	3.25	523	1610	580	-						
	3.70	459	1350	890	-						
	4.04	421	1260	940	-						
	4.73	359	1080	1020	-						
	5.35	318	910	1100	-						
	5.63	302	970	1110	-						
	6.41	265	910	1170	-						
7.47	228	465	1300	-							
8.00	212	500	1330	-							


Weight [lbs]		Stages	AM					
RX77			56	143	145	182	184	213/215
NEMA		1	56	60	60	67	68	81
IEC		1	71	80	90	100	112	132S/M
RXF77: + 5.0 lbs		1	55	60	60	70	70	85

8.1.4 RX87

RX87, $n_e = 1700$ rpm						3580 lb-in						
Stages	i [ratio]	n_a [rpm]	$T_{a \max}$ [lb-in]	F_{Ra} [lb]	ϕ (/R) [']	AM						
						143	145	182	184	213/215	254/256	284/286
 1	1.39	1225	2560	0	-							
	1.60	1060	2780	0	-							
	1.93	881	3140	0	-							
	2.15	791	3400	0	-							
	2.48	685	3580	0	-							
	2.76	616	3580	91	-							
	3.09	550	3580	255	-							
	3.48	489	3580	420	-							
	3.78	450	2690	1040	-							
	4.50	378	2560	1140	-							
	5.07	335	2210	1240	-							
	5.56	306	1990	1320	-							
	6.45	264	1690	1430	-							
	7.20	236	1230	1540	-							
7.63	223	1310	1570	-								
8.65	197	1220	1650	-								

Weight [lbs]		Stages	AM							
RX87			143	145	182	184	213/215	254/256	284/286	
NEMA		1	95	95	105	105	120	145	150	
IEC		1	80	90	100	112	132S/M	160	180	
RXF87: + 11 lbs		1	95	95	105	105	125	160	160	


8.1.5 RX97

RX97, $n_e = 1700$ rpm						5270 lb-in						
Stages	i [ratio]	n_a [rpm]	$T_{a\ max}$ [lb-in]	F_{Ra} [lb]	ϕ (/R) [']	AM						
						182	184	213/215	254/256	284/286	324/326	364/365
RX97  1	1.42	1195	4020	0	-							
	1.64	1035	4460	0	-							
	1.96	867	5040	0	-							
	2.24	759	5270	0	-							
	2.64	644	5270	225	-							
	2.92	582	5270	405	-							
	3.30	515	5270	605	-							
	3.64	467	5270	775	-							
	4.04	421	5270	960	-							
	4.52	376	5270	1150	-							
	4.91	346	3490	1500	-							
	5.79	294	3710	1580	-							
	6.56	259	2650	1770	-							
7.16	237	2300	1870	-								
8.23	207	1990	2000	-								

Weight [lbs]		Stages	AM						
			182	184	213/215	254/256	284/286	324/326	364/365
RX97	NEMA	1	160	160	170	205	205	245	245
			100	112	132S/M	160	180	200	225
	IEC	1	160	160	175	215	215	250	260

RXF97: + 19 lbs



8.1.6 RX107

RX107, $n_e = 1700$ rpm						7350 lb-in						
Stages	i [ratio]	n_a [rpm]	$T_{a\ max}$ [lb-in]	F_{Ra} [lb]	ϕ (/R) [']	AM						
						182	184	213/215	254/256	284/286	324/326	364/365
RX107  1	1.44	1180	5700	0	-							
	1.71	994	6230	0	-							
	1.95	872	6760	0	-							
	2.30	739	7350	0	-							
	2.64	644	7350	240	-							
	3.07	554	7350	545	-							
	3.38	503	7350	740	-							
	3.81	446	7350	970	-							
	4.20	405	7350	1150	-							
	4.65	366	6140	1530	-							
	5.19	328	6140	1610	-							
	5.61	303	4020	1890	-							
	6.63	256	4070	2020	-							

Weight [lbs]		Stages	AM						
			182	184	213/215	254/256	284/286	324/326	364/365
RX107	NEMA	1	230	230	235	270	275	315	315
			100	112	132S/M	160	180	200	225
	IEC	1	235	235	240	285	285	320	330



RXF107: + 37 lbs

8.1.7 R27

R27, n _e = 1700 rpm						1150 lb-in		
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	Φ (/R) [']	AM		
						56	143	145
R27  2	3.37	504	695	152	-			
	4.00	425	750	151	-			
	4.27	398	765	153	-			
	5.00	340	840	136	-			
	5.60	304	870	139	-			
	6.59	258	930	136	-			
	7.63	223	990	137	-			
	8.16	208	1020	129	-			
	9.41	181	1070	133	-			
	10.13	168	1070	355	-			
	11.86	143	1140	370	-			
	13.28	128	1150	410	-			
	15.63	109	1150	475	-			
	18.08	94	1150	505	-			
	19.35	88	1150	520	-			
	22.32	76	1150	550	-			
	26.09	65	1150	590	-			
	28.37	60	1150	610	-			
R27  3	24.47	69	1150	575	-			
	28.78	59	1150	615	-			
	32.47	52	1150	645	-			
	36.79	46	1150	680	-			
	39.25	43	1150	695	-			
	44.90	38	1150	735	-			
	48.17	35	1150	755	-			
	55.87	30	1150	800	-			
	61.30	28	1150	830	-			
	69.47	24	1150	870	-			
	74.11	23	1150	890	-			
	84.78	20	1150	940	-			
	90.96	19	1150	950	-			
	105.49	16	1150	950	-			
	123.91	14	1150	950	-			
135.09	13	1150	950	-				

Weight [lbs]		Stages	56	AM 143	145	
R27	NEMA	2	15	20	20	
		3	16	20	20	
				71	80	90
	IEC	2	14	20	20	
		3	15	20	20	
	RF27: + 0 lbs					


8.1.8 R37

R37, n_e = 1700 rpm						1770 lb-in		
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	φ (/R) [']	AM		
						56	143	145
R37 	3.41	499	990	138	14			
	4.05	420	1070	121	13			
	4.32	394	1110	114	13			
	5.06	336	1190	104	13			
	5.67	300	1250	94	12			
	6.67	255	1270	144	12			
	7.97	213	1380	300	8			
	9.47	180	1470	305	8			
	10.11	168	1500	315	8			
	11.83	144	1610	310	8			
	13.25	128	1680	320	8			
	15.60	109	1770	345	8			
	18.05	94	1770	425	8			
	19.31	88	1770	460	7			
	22.27	76	1770	545	7			
	26.03	65	1630	740	7			
28.32	60	1770	700	7				
R37 	24.42	70	1770	605	9			
	28.73	59	1770	705	9			
	32.40	52	1770	790	9			
	36.72	46	1770	880	9			
	39.17	43	1770	920	9			
	44.81	38	1770	1020	9			
	48.08	35	1770	1080	9			
	55.76	30	1770	1110	9			
	61.18	28	1770	1110	8			
	69.33	25	1770	1110	8			
	73.96	23	1770	1110	8			
	84.61	20	1770	1110	8			
	90.77	19	1770	1110	8			
	105.28	16	1770	1110	8			
	123.66	14	1770	1110	8			
	134.82	13	1770	1110	8			

Weight [lbs]		Stages	56	AM 143	145
R37	NEMA	2	28	32	33
		3	28	33	33
			71	80	90
	IEC	2	27	32	33
		3	28	33	33

RF37: + 3.5 lbs

8.1.9 R47

R47, n _e = 1700 rpm						2650 lb-in					
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	Φ (/R) [']	AM					
						56	143	145	182	184	213/215
R47  2	3.83	444	1270	430	11						
	4.34	392	1290	455	11						
	4.85	351	1320	470	10						
	5.64	301	1370	500	10						
	6.00	283	1380	510	10						
	6.96	244	1400	540	10						
	7.76	219	1440	565	10						
	8.01	212	1810	555	8						
	9.07	187	1940	550	8						
	10.15	167	2030	565	7						
	11.79	144	2160	575	7						
	12.54	136	2210	590	7						
	14.56	117	2340	605	7						
	16.22	105	2430	625	7						
	17.89	95	2560	615	7						
	19.27	88	2610	640	7						
	21.81	78	2650	710	7						
	23.28	73	2650	760	7						
	26.74	64	2650	840	7						
31.12	55	1940	960	7							
33.79	50	2120	970	7							
23.59	72	2650	775	8							
26.70	64	2650	840	8							
29.88	57	2650	880	8							
34.73	49	2650	940	8							
36.93	46	2650	960	8							
42.87	40	2650	1020	8							
47.75	36	2650	1070	8							
52.69	32	2650	1110	8							
56.73	30	2650	1150	8							
64.21	26	2650	1200	8							
68.54	25	2650	1220	8							
76.23	22	2650	1220	7							
84.90	20	2650	1220	7							
93.68	18	2650	1220	7							
100.86	17	2650	1220	7							
114.17	15	2650	1220	7							
121.87	14	2650	1220	7							
139.99	12	2650	1220	7							
162.94	10	2650	1220	7							
176.88	9.6	2650	1220	7							

8

Weight [lbs]		Stages	AM					
			56	143	145	182	184	213/215
R47	NEMA	2	37	41	41	49	49	62
		3	38	42	42	50	50	63
			71	80	90	100	112	132S/M
	IEC	2	36	41	41	51	51	67
3		37	42	42	53	53	68	

RF47: + 0 lbs

8.1.10 R47R37



R47R37, n_e = 1700 rpm							2650 lb-in		
i	n_a	T_{a max}	F_{Ra}¹⁾	Stages		φ (/R)	AM		
				Lg	Sm		56	143	145
98	17	2650	1220	2	2	-			
109	16	2650	1220	2	2	-			
129	13	2650	1220	2	2	-			
154	11	2650	1220	2	2	-			
182	9.3	2650	1220	2	2	-			
195	8.7	2650	1220	2	2	-			
228	7.5	2650	1220	2	2	-			
255	6.7	2650	1220	2	2	-			
301	5.6	2650	1220	2	2	-			
344	4.9	2650	1220	3	2	-			
348	4.9	2650	1220	2	2	-			
372	4.6	2650	1220	2	2	-			
408	4.2	2650	1220	3	2	-			
429	4.0	2650	1220	2	2	-			
436	3.9	2650	1220	3	2	-			
471	3.6	2650	1220	2	3	-			
502	3.4	2650	1220	2	2	-			
510	3.3	2650	1220	3	2	-			
546	3.1	2650	1220	2	2	-			
554	3.1	2650	1220	2	3	-			
572	3.0	2650	1220	3	2	-			
624	2.7	2650	1220	2	3	-			
673	2.5	2650	1220	3	2	-			
708	2.4	2650	1220	2	3	-			
755	2.3	2650	1220	2	3	-			
804	2.1	2650	1220	3	2	-			
863	2.0	2650	1220	2	3	-			
927	1.8	2650	1220	2	3	-			
955	1.8	2650	1220	3	2	-			
1020	1.7	2650	1220	3	2	-			
1074	1.6	2650	1220	2	3	-			
1179	1.4	2650	1220	2	3	-			
1193	1.4	2650	1220	3	2	-			
1336	1.3	2650	1220	2	3	-			
1425	1.2	2650	1220	2	3	-			
1573	1.1	2650	1220	3	2	-			
1630	1.0	2650	1220	2	3	-			
1749	0.97	2650	1220	2	3	-			
1821	0.93	2650	1220	3	2	-			
1948	0.87	2650	1220	3	2	-			
2029	0.84	2650	1220	2	3	-			
2246	0.76	2650	1220	3	2	-			
2383	0.71	2650	1220	2	3	-			
2463	0.69	2650	1220	3	3	-			
2598	0.65	2650	1220	2	3	-			
2625	0.65	2650	1220	3	2	-			
2856	0.60	2650	1220	3	2	-			
2898	0.59	2650	1220	3	3	-			
3268	0.52	2650	1220	3	3	-			
3704	0.46	2650	1220	3	3	-			
3951	0.43	2650	1220	3	3	-			

R47R37, n_e = 1700 rpm 2650 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		φ (R) [']	56	AM	
				Lg	Sm			143	145
4520	0.38	2650	1220	3	3	-			
4849	0.35	2650	1220	3	3	-			
5624	0.30	2650	1220	3	3	-			
6171	0.28	2650	1220	3	3	-			
6993	0.24	2650	1220	3	3	-			
7460	0.23	2650	1220	3	3	-			
8534	0.20	2650	1220	3	3	-			
9155	0.19	2650	1220	3	3	-			
10619	0.16	2650	1220	3	3	-			
12472	0.14	2650	1220	3	3	-			
13598	0.13	2650	1220	3	3	-			

Weight [lbs]		Stages		56	AM	
		Large	Small		143	145
R47R37	NEMA	2	2	60	64	64
		2	3	60	65	65
		3	2	61	66	66
		3	3	62	66	66
				71	80	90
	IEC	2	2	59	64	64
		2	3	60	65	65
		3	2	60	66	66
		3	3	61	66	66
RF47: +0 lbs						

8.1.11 R57

R57, n _e = 1700 rpm						3980 lb-in					
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	Φ (i/R) [']	AM					
						56	143	145	182	184	213/215
R57  2	4.39	387	2470	315	10						
	5.05	337	2690	270	10						
	5.82	292	2830	285	10						
	6.41	265	2960	270	9						
	7.53	226	3090	300	9						
	7.97	213	3140	315	9						
	9.06	188	3310	305	9						
	9.35	182	3270	615	7						
	10.79	158	3450	635	7						
	11.88	143	3580	645	7						
	13.95	122	3800	670	7						
	14.77	115	3840	695	7						
	16.79	101	3980	745	7						
	18.60	91	3980	830	7						
	21.93	78	3980	900	7						
	24.99	68	3980	950	6						
	26.31	65	3980	980	6						
R57  3	26.97	63	3980	990	8						
	30.18	56	3980	1040	8						
	35.07	48	3980	1110	8						
	37.30	46	3980	1140	8						
	43.30	39	3980	1220	8						
	48.23	35	3980	1280	8						
	53.22	32	3980	1330	8						
	57.29	30	3980	1370	8						
	64.85	26	3980	1450	8						
	69.23	25	3980	1490	7						
	80.55	21	3980	1580	7						
	89.71	19	3980	1600	7						
	98.99	17	3980	1600	7						
	106.58	16	3980	1600	7						
	120.63	14	3980	1600	7						
	128.77	13	3980	1600	7						
	147.92	11	3980	1600	7						
172.17	9.9	3980	1600	7							
186.89	9.1	3980	1600	7							

Weight [lbs]		Stages	AM					
			56	143	145	182	184	213/215
R57	NEMA	2	47	52	52	60	60	72
		3	50	54	54	62	62	74
			71	80	90	100	112	132S/M
	IEC	2	47	52	52	62	62	78
		3	49	54	54	64	64	80
	RF57: + 7.5 lbs / RM57: +34 lbs							

8.1.12 R57R37

R57R37, $n_e = 1700$ rpm							3980 lb-in		
i [ratio]	n_a [rpm]	$T_{a \max}$ [lb-in]	$F_{Ra}^{1)}$ [lb]	Stages		ϕ (/R) [']	56	AM	
				Lg	Sm			143	145
134	13	3980	1600	2	2	-			
142	12	3980	1600	3	2	-			
146	12	3980	1600	2	2	-			
159	11	3980	1600	2	2	-			
164	10	3980	1600	3	2	-			
187	9.1	3980	1600	3	2	-			
188	9.0	3980	1600	2	2	-			
215	7.9	3980	1600	3	2	-			
220	7.7	3980	1600	2	2	-			
241	7.1	3980	1600	3	2	-			
246	6.9	3980	1600	2	2	-			
262	6.5	3980	1600	2	2	-			
273	6.2	3980	1600	3	2	-			
290	5.9	3980	1600	2	2	-			
319	5.3	3980	1600	3	2	-			
324	5.2	3980	1600	2	2	-			
357	4.8	3980	1600	3	2	-			
359	4.7	3980	1600	2	2	-			
410	4.1	3980	1600	2	3	-			
454	3.7	3980	1600	2	3	-			
471	3.6	3980	1600	3	2	-			
534	3.2	3980	1600	2	3	-			
537	3.2	3980	1600	3	2	-			
603	2.8	3980	1600	2	3	-			
604	2.8	3980	1600	3	2	-			
678	2.5	3980	1600	3	2	-			
683	2.5	3980	1600	2	3	-			
782	2.2	3980	1600	3	2	-			
805	2.1	3980	1600	2	3	-			
894	1.9	3980	1600	2	3	-			
1027	1.7	3980	1600	2	3	-			
1034	1.6	3980	1600	3	2	-			
1164	1.5	3980	1600	2	3	-			
1189	1.4	3980	1600	3	2	-			
1342	1.3	3980	1600	2	3	-			
1399	1.2	3980	1600	3	2	-			
1520	1.1	3980	1600	2	3	-			
1555	1.1	3980	1600	3	2	-			
1732	0.98	3980	1600	3	2	-			
1768	0.96	3980	1600	2	3	-			
1967	0.86	3980	1600	3	3	-			
1991	0.85	3980	1600	2	3	-			
2244	0.76	3980	1600	3	3	-			
2309	0.74	3980	1600	2	3	-			
2508	0.68	3980	1600	2	3	-			
2567	0.66	3980	1600	3	3	-			
2907	0.58	3980	1600	3	3	-			
2957	0.57	3980	1600	2	3	-			
3344	0.51	3980	1600	3	3	-			
3873	0.44	3980	1600	3	3	-			
4378	0.39	3980	1600	3	3	-			

8

R57R37, $n_e = 1700$ rpm



3980 lb-in

i [ratio]	n_a [rpm]	T_a max [lb-in]	$F_{Ra}^{1)}$ [lb]	Stages		ϕ (R) [']	56	AM	
				Lg	Sm			143	145
4928	0.34	3980	1600	3	3	-			
5585	0.30	3980	1600	3	3	-			
6521	0.26	3980	1600	3	3	-			
7312	0.23	3980	1600	3	3	-			
8480	0.20	3980	1600	3	3	-			
9445	0.18	3980	1600	3	3	-			
10860	0.16	3980	1600	3	3	-			
12095	0.14	3980	1600	3	3	-			
14369	0.12	3980	1600	3	3	-			

Weight [lbs]		Stages		56	AM		
		Large	Small		143	145	
R57R37	NEMA	2	2	71	75	75	
		2	3	71	76	76	
		3	2	73	77	77	
		3	3	73	78	78	
					71	80	90
	IEC	2	2	70	75	75	
		2	3	70	76	76	
		3	2	72	77	77	
		3	3	72	78	78	

RF57: +7.5 lbs / RM57 +34 lbs

8.1.13 R67

R67, n _e = 1700 rpm						5310 lb-in					
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	Φ (i/R) [']	AM					
						56	143	145	182	184	213/215
R67  2	4.29	396	2380	1040	10						
	4.93	345	2560	1080	9						
	5.70	298	2740	1130	9						
	6.27	271	2910	1150	9						
	7.36	231	3270	1100	8						
	7.79	218	3360	1110	8						
	8.70	195	3890	1190	7						
	10.00	170	4150	1200	7						
	11.54	147	4420	1230	7						
	12.70	134	4600	1260	6						
	14.91	114	4860	1320	6						
	15.79	108	4950	1350	6						
	17.95	95	5220	1380	6						
	19.89	85	5300	1470	6						
	23.44	73	4950	1760	6						
	26.72	64	4770	1850	6						
28.13	60	4770	1850	6							
28.83	59	4600	1890	7							
32.27	53	4770	1850	7							
37.50	45	5040	1780	7							
39.88	43	5130	1750	7							
46.29	37	5310	1700	7							
51.56	33	5310	1700	7							
56.89	30	5310	1700	7							
61.26	28	5310	1700	7							
69.75	24	5310	1700	7							
74.17	23	5310	1700	7							
86.11	20	5310	1700	6							
95.91	18	5310	1700	6							
105.83	16	5310	1700	6							
113.94	15	5310	1700	6							
128.97	13	5310	1700	6							
137.67	12	5310	1700	6							
158.14	11	5310	1700	6							
184.07	9.2	5310	1700	6							
199.81	8.5	5310	1700	6							
R67  3											

8

Weight [lbs]		Stages	AM					
			56	143	145	182	184	213/215
R67	NEMA	2	62	66	66	74	74	87
		3	64	68	68	76	76	89
			71	80	90	100	112	132S/M
	IEC	2	61	66	66	77	77	92
3		63	68	68	79	79	94	

RF67: + 7 lbs / RM67: +42 lbs

8.1.14 R67R37

R67R37, n_e = 1700 rpm							5310 lb-in		
i	n_a	T_{a max}	F_{Ra}¹⁾	Stages		Φ_(/R)	AM		
				Lg	Sm		56	143	145
158	11	5310	1700	3	2	-			
159	11	5310	1700	2	2	-			
176	9.7	5310	1700	3	2	-			
181	9.4	5310	1700	2	2	-			
200	8.5	5310	1700	3	2	-			
201	8.5	5310	1700	2	2	-			
234	7.3	5310	1700	3	2	-			
235	7.2	5310	1700	2	2	-			
261	6.5	5310	1700	3	2	-			
264	6.4	5310	1700	2	2	-			
294	5.8	5310	1700	3	2	-			
310	5.5	5310	1700	2	2	-			
344	4.9	5310	1700	3	2	-			
359	4.7	5310	1700	2	2	-			
384	4.4	5310	1700	2	2	-			
388	4.4	5310	1700	3	2	-			
438	3.9	5310	1700	3	2	-			
443	3.8	5310	1700	2	2	-			
486	3.5	5310	1700	2	3	-			
495	3.4	5310	1700	3	2	-			
571	3.0	5310	1700	2	3	-			
574	3.0	5310	1700	3	2	-			
644	2.6	5310	1700	2	3	-			
646	2.6	5310	1700	3	2	-			
730	2.3	5310	1700	2	3	-			
750	2.3	5310	1700	3	2	-			
836	2.0	5310	1700	3	2	-			
891	1.9	5310	1700	2	3	-			
956	1.8	5310	1700	2	3	-			
1106	1.5	5310	1700	3	2	-			
1109	1.5	5310	1700	2	3	-			
1259	1.4	5310	1700	3	2	-			
1379	1.2	5310	1700	2	3	-			
1432	1.2	5310	1700	3	2	-			
1471	1.2	5310	1700	2	3	-			
1629	1.0	5310	1700	2	3	-			
1652	1.0	5310	1700	3	2	-			
1805	0.94	5310	1700	2	3	-			
1852	0.92	5310	1700	3	2	-			
2094	0.81	5310	1700	2	3	-			
2136	0.80	5310	1700	3	2	-			
2403	0.71	5310	1700	3	3	-			
2460	0.69	5310	1700	2	3	-			
2682	0.63	5310	1700	2	3	-			
2745	0.62	5310	1700	3	3	-			
3125	0.54	5310	1700	3	3	-			
3566	0.48	5310	1700	3	3	-			
4136	0.41	5310	1700	3	3	-			
4680	0.36	5310	1700	3	3	-			
5268	0.32	5310	1700	3	3	-			
5970	0.28	5310	1700	3	3	-			



R67R37, n_e = 1700 rpm **5310 lb-in**

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		φ (/R) [']	56	AM	
				Lg	Sm			143	145
6732	0.25	5310	1700	3	3	-			
7816	0.22	5310	1700	3	3	-			
9066	0.19	5310	1700	3	3	-			
10097	0.17	5310	1700	3	3	-			
11996	0.14	5310	1700	3	3	-			
12931	0.13	5310	1700	3	3	-			
15361	0.11	5310	1700	3	3	-			

Weight [lbs]		Stages		56	AM		
		Large	Small		143	145	
R67R37	NEMA	2	2	85	90	90	
		2	3	86	90	90	
		3	2	87	92	92	
		3	3	88	92	92	
					71	80	90
	IEC	2	2	84	90	90	
		2	3	85	90	90	
		3	2	86	92	92	
		3	3	87	92	92	

RF67: + 7 lbs / RM67: + 42 lbs

8.1.15 R77

R77, n _e = 1700 rpm						7260 lb-in					
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	Φ (i/R) [']	AM					
						56	143	145	182	184	213/215
R77  2	5.31	320	4510	710	8						
	5.99	284	4770	700	8						
	6.79	250	5130	660	8						
	7.74	220	5390	675	8						
	8.59	198	5570	705	7						
	9.64	176	5570	1190	7						
	10.88	156	5830	1220	6						
	12.33	138	6100	1270	6						
	14.05	121	6370	1330	6						
	15.60	109	6540	1390	6						
	17.82	95	6900	1430	6						
	18.80	90	6900	1510	6						
	21.43	79	7260	1560	6						
	23.37	73	7260	1690	6						
R77  3	25.23	67	6900	1950	7						
	29.00	59	7260	2030	7						
	33.47	51	7260	2230	7						
	36.83	46	7260	2230	7						
	43.26	39	7260	2230	7						
	45.81	37	7260	2230	7						
	52.07	33	7260	2230	7						
	57.68	29	7260	2230	7						
	65.77	26	7260	2230	7						
	77.24	22	7260	2230	6						
	81.80	21	7260	2230	6						
	92.97	18	7260	2230	6						
	102.99	17	7260	2230	6						
	121.42	14	7260	2230	6						
	138.39	12	7260	2230	6						
	145.67	12	7260	2230	6						
166.59	10	7260	2230	6							
195.24	8.7	7260	2230	6							

Weight [lbs]		Stages	AM					
			56	143	145	182	184	213/215
R77	NEMA	2	75	79	79	86	87	100
		3	77	81	81	89	89	100
	IEC		71	80	90	100	112	132S/M
		2	74	79	79	89	89	105
		3	76	81	81	91	91	105

RF77: + 13 lbs / RM77: +68 lbs

8.1.16 R77R37

R77R37, $n_e = 1700$ rpm							7260 lb-in		
i [ratio]	n_a [rpm]	$T_{a \max}$ [lb-in]	$F_{Ra}^{1)}$ [lb]	Stages		ϕ (/R) [']	AM		
				Lg	Sm		56	143	145
149	11	7260	2230	3	2	-			
169	10	7260	2230	3	2	-			
186	9.1	7260	2230	2	2	-			
197	8.6	7260	2230	3	2	-			
221	7.7	7260	2230	2	2	-			
224	7.6	7260	2230	3	2	-			
236	7.2	7260	2230	2	2	-			
260	6.5	7260	2230	3	2	-			
276	6.2	7260	2230	2	2	-			
289	5.9	7260	2230	3	2	-			
310	5.5	7260	2230	2	2	-			
327	5.2	7260	2230	3	2	-			
365	4.7	7260	2230	2	2	-			
373	4.6	7260	2230	3	2	-			
422	4.0	7260	2230	2	2	-			
436	3.9	7260	2230	3	2	-			
451	3.8	7260	2230	2	2	-			
488	3.5	7260	2230	3	2	-			
520	3.3	7260	2230	2	2	-			
560	3.0	7260	2230	3	2	-			
571	3.0	7260	2230	2	3	-			
646	2.6	7260	2230	3	2	-			
671	2.5	7260	2230	2	3	-			
731	2.3	7260	2230	3	2	-			
757	2.2	7260	2230	2	3	-			
821	2.1	7260	2230	3	2	-			
858	2.0	7260	2230	2	3	-			
915	1.9	7260	2230	2	3	-			
940	1.8	7260	2230	3	2	-			
1047	1.6	7260	2230	2	3	-			
1084	1.6	7260	2230	3	2	-			
1124	1.5	7260	2230	2	3	-			
1218	1.4	7260	2230	3	2	-			
1303	1.3	7260	2230	2	3	-			
1394	1.2	7260	2230	3	2	-			
1430	1.2	7260	2230	2	3	-			
1580	1.1	7260	2230	3	2	-			
1620	1.0	7260	2230	2	3	-			
1728	0.98	7260	2230	2	3	-			
1822	0.93	7260	2230	3	2	-			
1977	0.86	7260	2230	2	3	-			
2070	0.82	7260	2230	3	2	-			
2121	0.80	7260	2230	2	3	-			
2345	0.72	7260	2230	3	2	-			
2460	0.69	7260	2230	2	3	-			
2671	0.64	7260	2230	3	3	-			
2890	0.59	7260	2230	2	3	-			
3053	0.56	7260	2230	3	3	-			
3151	0.54	7260	2230	2	3	-			
3488	0.49	7260	2230	3	3	-			
3999	0.43	7260	2230	3	3	-			

R77R37, $n_e = 1700$ rpm



7260 lb-in

i [ratio]	n_a [rpm]	T_a max [lb-in]	$F_{Ra}^{1)}$ [lb]	Stages		ϕ (/R) [']	56	AM	
				Lg	Sm			143	145
4470	0.38	7260	2230	3	3	-			
5184	0.33	7260	2230	3	3	-			
5838	0.29	7260	2230	3	3	-			
6770	0.25	7260	2230	3	3	-			
7617	0.22	7260	2230	3	3	-			
8714	0.20	7260	2230	3	3	-			
9788	0.17	7260	2230	3	3	-			
11021	0.15	7260	2230	3	3	-			
12783	0.13	7260	2230	3	3	-			
13885	0.12	7260	2230	3	3	-			
15015	0.11	7260	2230	3	3	-			
16370	0.10	7260	2230	3	3	-			

Weight [lbs]		Stages		56	AM		
		Large	Small		143	145	
R77R37	NEMA	2	2	97	100	100	
		2	3	97	100	100	
		3	2	99	105	105	
		3	3	100	105	105	
					71	80	90
	IEC	2	2	96	100	100	
		2	3	96	100	100	
		3	2	98	105	105	
		3	3	99	105	105	

RF77: + 13 lbs / RM77: + 68 lbs

8.1.17 R87

R87, n _e = 1700 rpm						13700 lb-in						
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	Φ (/R) [']	AM						
						143	145	182	184	213/215	254/256	284/286
R87  2	5.30	321	8050	1870	7							
	6.39	266	9020	1960	7							
	7.13	238	9460	2030	7							
	8.22	207	10200	2110	7							
	9.14	186	10700	2190	6							
	9.90	172	10400	2150	6							
	11.93	142	10800	2310	6							
	13.33	128	11300	2390	6							
	15.35	111	11800	2510	6							
	17.08	100	12200	2600	6							
	19.10	89	12700	2700	6							
	21.51	79	13200	2810	6							
	23.40	73	13700	2880	6							
	27.84	61	13700	3100	6							
	31.40	54	13700	1330	5							
34.40	49	13200	1690	5								
R87  3	27.88	61	13200	3130	7							
	32.66	52	13700	3320	7							
	36.84	46	13700	3490	7							
	41.74	41	13700	3670	7							
	47.58	36	13700	3800	7							
	52.82	32	13700	2540	6							
	60.35	28	13700	2880	6							
	63.68	27	13700	3020	6							
	72.57	23	13700	3380	6							
	81.92	21	13700	3730	6							
	93.38	18	13700	3800	6							
	103.65	16	13700	3800	6							
	118.43	14	13700	3800	6							
	124.97	14	13700	3800	6							
	142.41	12	13700	3800	6							
	155.34	11	13700	3800	6							
	181.77	9.4	13700	3800	6							
205.71	8.3	13700	3800	6								
216.54	7.9	13700	3800	6								
246.54	6.9	13700	3800	6								

8

Weight [lbs]		Stages	AM						
			143	145	182	184	213/215	254/256	284/286
R87	NEMA	2	135	135	145	145	160	190	195
		3	140	140	150	150	160	190	195
			80	90	100	112	132S/M	160	180
	IEC	2	135	135	145	145	165	200	200
3		140	140	150	150	165	200	205	

RF87: + 16 lbs / RM87: +81 lbs

8.1.18 R87R57

R87R57, n_e = 1700 rpm							13720 lb-in					
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		Φ (i/R) [']	AM					
				Lg	Sm		56	143	145	182	184	213/215
195	8.7	13720	3810	2	2	-						
209	8.1	13720	3810	3	2	-						
232	7.3	13720	3810	2	2	-						
236	7.2	13720	3810	3	2	-						
256	6.6	13720	3810	2	2	-						
268	6.3	13720	3810	3	2	-						
300	5.7	13720	3810	2	2	-						
305	5.6	13720	3810	3	2	-						
352	4.8	13720	3810	3	2	-						
361	4.7	13720	3810	2	2	-						
398	4.3	13720	3810	3	2	-						
400	4.3	13720	3810	2	2	-						
456	3.7	13720	3810	3	2	-						
472	3.6	13720	3810	2	2	-						
525	3.2	13720	3810	3	2	-						
538	3.2	13720	3810	2	2	-						
580	2.9	13720	3810	2	3	-						
599	2.8	13720	3810	3	2	-						
649	2.6	13720	3810	2	3	-						
685	2.5	13720	3810	3	2	-						
754	2.3	13720	3810	2	3	-						
776	2.2	13720	3810	3	2	-						
802	2.1	13720	3810	2	3	-						
881	1.9	13720	3810	3	3	-						
885	1.9	13720	3810	3	2	-						
931	1.8	13720	3810	2	3	-						
994	1.7	13720	3810	3	3	-						
1008	1.7	13720	3810	3	2	-						
1037	1.6	13720	3810	2	3	-						
1143	1.5	13720	3810	3	2	-						
1145	1.5	13720	3810	2	3	-						
1232	1.4	13720	3810	2	3	-						
1303	1.3	13720	3810	3	2	-						
1395	1.2	13720	3810	2	3	-						
1489	1.1	13720	3810	2	3	-						
1524	1.1	13720	3810	3	2	-						
1733	0.98	13720	3810	2	3	-						
1737	0.98	13720	3810	3	2	-						
1930	0.88	13720	3810	2	3	-						
1961	0.87	13720	3810	3	3	-						
2129	0.80	13720	3810	2	3	-						
2209	0.77	13720	3810	3	3	-						
2518	0.68	13720	3810	3	3	-						
2595	0.66	13720	3810	2	3	-						
2770	0.61	13720	3810	2	3	-						
2873	0.59	13720	3810	3	3	-						
3182	0.53	13720	3810	2	3	-						
3233	0.53	13720	3810	3	3	-						
3703	0.46	13720	3810	2	3	-						
3744	0.45	13720	3810	3	3	-						
4020	0.42	13720	3810	2	3	-						


R87R57, n_e = 1700 rpm 13720 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		φ (/R) [']	AM					
				Lg	Sm		56	143	145	182	184	213/215
4206	0.40	13720	3810	3	3	-						
4831	0.35	13720	3810	3	3	-						
5449	0.31	13720	3810	3	3	-						
6174	0.28	13720	3810	3	3	-						
7038	0.24	13720	3810	3	3	-						
8109	0.21	13720	3810	3	3	-						
9244	0.18	13720	3810	3	3	-						
10549	0.16	13720	3810	3	3	-						
12025	0.14	13720	3810	3	3	-						
13813	0.12	13720	3810	3	3	-						
15310	0.11	13720	3810	3	3	-						
17452	0.10	13720	3810	3	3	-						

Weight [lbs]		Stages		AM						
		Large	Small	56	143	145	182	184	213/215	
R87R57	NEMA	2	2	185	185	190	195	195	210	
		2	3	185	190	190	200	200	210	
		3	2	185	190	190	200	200	210	
		3	3	190	195	195	200	200	215	
					71	80	90	100	112	132S/M
	IEC	2	2	185	185	190	200	200	215	
		2	3	185	190	190	200	200	215	
		3	2	185	190	190	200	200	215	
		3	3	190	195	195	205	205	220	

RF87: + 16 lbs / RM87: + 81 lbs

8.1.19 R97

R97, n_e = 1700 rpm						26500 lb-in						
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	Φ (°/R) [']	AM						
						182	184	213/215	254/256	284/286	324/326	364/365
R97  2	4.50	378	14400	1960	6							
	5.20	327	15700	2030	6							
	6.21	274	16700	2160	6							
	7.12	239	17600	2250	6							
	8.39	203	17900	2410	6							
	9.29	183	17900	2520	6							
	10.83	157	18400	2490	6							
	12.39	137	19300	2610	6							
	14.62	116	20300	2760	6							
	16.17	105	21200	2850	6							
	18.24	93	22100	2960	6							
	20.14	84	23000	3050	5							
	22.37	76	24000	3150	5							
	25.03	68	25000	3270	5							
27.19	63	22600	1340	5								
32.05	53	22600	1800	5								
27.58	62	23600	3490	6								
33.25	51	25500	3690	6								
37.13	46	26500	3830	6								
42.78	40	26500	4080	6								
47.58	36	26500	4280	6								
53.21	32	26500	4450	6								
59.92	28	26500	4450	6								
65.21	26	26500	4450	6								
72.17	24	26500	3300	6								
83.15	20	26500	3840	6								
92.48	18	26500	4270	6								
103.44	16	26500	4450	6								
116.48	15	26500	4450	6								
126.75	13	26500	4450	6								
150.78	11	26500	4450	6								
170.02	10.0	26500	4450	6								
186.30	9.1	26500	4450	6								
216.28	7.9	26500	4450	6								
241.25	7.0	26500	4450	6								
255.71	6.6	26500	4450	6								
289.74	5.9	26500	4450	6								

Weight [lbs]		Stages	AM						
			182	184	213/215	254/256	284/286	324/326	364/365
R97	NEMA	2	235	235	245	280	280	320	320
		3	240	240	250	285	290	325	325
			100	112	132S/M	160	180	200	225
	IEC	2	235	235	250	290	290	325	335
3		240	240	255	295	295	330	340	

RF97: + 38 lbs / RM97: +150 lbs

8.1.20 R97R57

R97R57, n _e = 1700 rpm							26500 lb-in					
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		φ (/R) [']	AM					
				Lg	Sm		56	143	145	182	184	213/215
209	8.1	26500	4450	3	2	-						
227	7.5	26500	4450	2	2	-						
234	7.3	26500	4450	3	2	-						
249	6.8	26500	4450	3	2	-						
270	6.3	26500	4450	2	2	-						
296	5.7	26500	4450	3	2	-						
297	5.7	26500	4450	2	2	-						
336	5.1	26500	4450	3	2	-						
349	4.9	26500	4450	2	2	-						
370	4.6	26500	4450	2	2	-						
379	4.5	26500	4450	3	2	-						
420	4.0	26500	4450	2	2	-						
431	3.9	26500	4450	3	2	-						
466	3.6	26500	4450	2	2	-						
484	3.5	26500	4450	3	2	-						
549	3.1	26500	4450	2	2	-						
560	3.0	26500	4450	3	2	-						
625	2.7	26500	4450	2	2	-						
632	2.7	26500	4450	3	2	-						
737	2.3	26500	4450	3	2	-						
755	2.3	26500	4450	2	3	-						
824	2.1	26500	4450	3	2	-						
878	1.9	26500	4450	2	3	-						
934	1.8	26500	4450	2	3	-						
938	1.8	26500	4450	3	2	-						
1069	1.6	26500	4450	3	2	-						
1084	1.6	26500	4450	2	3	-						
1207	1.4	26500	4450	2	3	-						
1228	1.4	26500	4450	3	2	-						
1396	1.2	26500	4450	3	2	-						
1434	1.2	26500	4450	2	3	-						
1583	1.1	26500	4450	3	2	-						
1623	1.0	26500	4450	2	3	-						
1733	0.98	26500	4450	2	3	-						
1823	0.93	26500	4450	3	2	-						
2016	0.84	26500	4450	2	3	-						
2078	0.82	26500	4450	3	2	-						
2245	0.76	26500	4450	2	3	-						
2311	0.74	26500	4450	3	2	-						
2668	0.64	26500	4450	2	3	-						
2722	0.62	26500	4450	3	2	-						
3019	0.56	26500	4450	2	3	-						
3065	0.55	26500	4450	3	2	-						
3481	0.49	26500	4450	3	3	-						
3702	0.46	26500	4450	2	3	-						
4004	0.42	26500	4450	3	3	-						
4309	0.39	26500	4450	2	3	-						
4559	0.37	26500	4450	3	3	-						
4678	0.36	26500	4450	2	3	-						
5161	0.33	26500	4450	3	3	-						
5931	0.29	26500	4450	3	3	-						



R97R57, n_e = 1700 rpm 26500 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		φ (/R) [']	AM					
				Lg	Sm		56	143	145	182	184	213/215
6708	0.25	26500	4450	3	3	-						
7692	0.22	26500	4450	3	3	-						
8706	0.20	26500	4450	3	3	-						
10030	0.17	26500	4450	3	3	-						
11156	0.15	26500	4450	3	3	-						
13320	0.13	26500	4450	3	3	-						
14999	0.11	26500	4450	3	3	-						
17230	0.10	26500	4450	3	3	-						
19332	0.09	26500	4450	3	3	-						
21769	0.08	26500	4450	3	3	-						

Weight [lbs]		Stages		AM						
		Large	Small	56	143	145	182	184	213/215	
R97R57	NEMA	2	2	275	275	275	285	285	300	
		2	3	275	280	280	285	285	300	
		3	2	280	285	285	290	290	305	
		3	3	280	285	285	295	295	305	
					71	80	90	100	112	132S/M
	IEC	2	2	270	275	275	285	285	305	
		2	3	275	280	280	290	290	305	
		3	2	280	285	285	295	295	310	
		3	3	280	285	285	295	295	310	

RF97: + 38 lbs / RM97: + 150 lbs

8.1.21 R107

R107, n _e = 1700 rpm						38100 lb-in						
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	φ (/R) [']	AM						
						182	184	213/215	254/256	284/286	324/326	364/365
R107  2	4.92	346	25600	2320	9							
	5.82	292	26200	2480	9							
	6.66	255	26200	2640	9							
	7.86	216	26200	2840	9							
	8.56	199	38100	2280	7							
	10.13	168	38100	2500	7							
	11.59	147	38100	2690	7							
	13.66	124	38100	2930	7							
	15.65	109	38100	3140	7							
	18.21	93	38100	3390	7							
	20.07	85	38100	3550	7							
	22.62	75	38100	3760	7							
	24.90	68	38100	3940	7							
	27.58	62	38100	4130	7							
30.77	55	38100	4340	7								
R107  3	29.49	58	38100	4260	7							
	35.26	48	38100	4620	7							
	40.37	42	38100	4910	7							
	47.63	36	38100	5280	7							
	52.68	32	38100	5510	7							
	59.41	29	38100	5800	7							
	65.60	26	38100	6050	7							
	72.88	23	38100	6320	7							
	78.57	22	38100	6520	7							
	92.70	18	38100	6620	7							
	102.53	17	38100	6620	7							
	115.63	15	38100	6620	7							
	127.68	13	38100	6620	7							
	141.83	12	38100	6620	7							
	158.68	11	38100	6620	7							
	172.34	9.9	38100	6620	7							
203.16	8.4	38100	6620	7								
229.95	7.4	38100	6620	7								
251.15	6.8	38100	6620	7								

8

Weight [lbs]		Stages	AM						
			182	184	213/215	254/256	284/286	324/326	364/365
R107	NEMA	2	355	355	360	395	400	435	435
		3	370	370	370	410	415	450	450
			100	112	132S/M	160	180	200	225
	IEC	2	355	355	360	405	405	440	450
		3	370	370	375	420	420	455	465
	RF107: + 13 lbs / RM107: +205 lbs								

8.1.22 R107R77

R107R77, n_e = 1700 rpm							38100 lb-in					
i	n_a	T_{a max}	F_{Ra}¹⁾	Stages		φ (/R)	AM					
				Lg	Sm		56	143	145	182	184	213/215
172	9.9	38100	6620	2	2	-						
187	9.1	38100	6620	3	2	-						
193	8.8	38100	6620	2	2	-						
214	7.9	38100	6620	3	2	-						
220	7.7	38100	6620	2	2	-						
253	6.7	38100	6620	3	2	-						
256	6.6	38100	6620	2	2	-						
284	6.0	38100	6620	2	2	-						
285	6.0	38100	6620	3	2	-						
323	5.3	38100	6620	3	2	-						
325	5.2	38100	6620	2	2	-						
369	4.6	38100	6620	3	2	-						
377	4.5	38100	6620	2	2	-						
417	4.1	38100	6620	3	2	-						
426	4.0	38100	6620	2	2	-						
469	3.6	38100	6620	2	2	-						
492	3.5	38100	6620	3	2	-						
528	3.2	38100	6620	2	3	-						
544	3.1	38100	6620	3	2	-						
614	2.8	38100	6620	3	2	-						
626	2.7	38100	6620	2	3	-						
717	2.4	38100	6620	2	3	-						
815	2.1	38100	6620	2	3	-						
822	2.1	38100	6620	3	2	-						
919	1.8	38100	6620	2	3	-						
939	1.8	38100	6620	3	2	-						
1055	1.6	38100	6620	2	3	-						
1104	1.5	38100	6620	3	2	-						
1209	1.4	38100	6620	2	3	-						
1226	1.4	38100	6620	3	2	-						
1400	1.2	38100	6620	3	2	-						
1407	1.2	38100	6620	2	3	-						
1550	1.1	38100	6620	2	3	-						
1599	1.1	38100	6620	3	2	-						
1693	1.0	38100	6620	2	3	-						
1827	0.93	38100	6620	3	2	-						
1987	0.86	38100	6620	3	2	-						
2067	0.82	38100	6620	2	3	-						
2280	0.75	38100	6620	2	3	-						
2339	0.73	38100	6620	3	3	-						
2653	0.64	38100	6620	2	3	-						
2688	0.63	38100	6620	3	3	-						
3034	0.56	38100	6620	2	3	-						
3039	0.56	38100	6620	3	3	-						
3343	0.51	38100	6620	2	3	-						
3432	0.50	38100	6620	3	3	-						
3896	0.44	38100	6620	3	3	-						
3918	0.43	38100	6620	2	3	-						
4435	0.38	38100	6620	3	3	-						
5168	0.33	38100	6620	3	3	-						
5914	0.29	38100	6620	3	3	-						



R107R77, $n_e = 1700$ rpm 38100 lb-in

i [ratio]	n_a [rpm]	T_a max [lb-in]	$F_{Ra}^{1)}$ [lb]	Stages		ϕ (/R) [']	AM					
				Lg	Sm		56	143	145	182	184	213/215
6743	0.25	38100	6620	3	3	-						
7583	0.22	38100	6620	3	3	-						
8618	0.20	38100	6620	3	3	-						
9547	0.18	38100	6620	3	3	-						
11256	0.15	38100	6620	3	3	-						
12829	0.13	38100	6620	3	3	-						
14936	0.11	38100	6620	3	3	-						
17080	0.10	38100	6620	3	3	-						
20018	0.08	38100	6620	3	3	-						

Weight [lbs]		Stages		AM						
		Large	Small	56	143	145	182	184	213/215	
R107R77	NEMA	2	2	425	430	430	435	435	450	
		2	3	425	430	430	440	440	450	
		3	2	440	445	445	450	450	465	
		3	3	440	445	445	455	455	465	
					71	80	90	100	112	132S/M
	IEC	2	2	425	430	430	440	440	455	
		2	3	425	430	430	440	440	455	
		3	2	440	445	445	455	455	470	
		3	3	440	445	445	455	455	470	

RF107: + 13 lbs / RM107: + 205 lbs

8.1.23 R137

R137, n_e = 1700 rpm						70700 lb-in				
Stages	i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} [lb]	Φ (°/R) [']	AM				
						213/215	254/256	284/286	324/326	364/365
R137  2	5.15	330	40700	7070	8					
	6.38	266	45200	7340	8					
	7.59	224	45200	8000	8					
	8.71	195	69300	5410	6					
	10.79	158	70700	6130	6					
	12.83	133	70700	6890	6					
	14.51	117	70700	7450	6					
	16.80	101	70700	8150	6					
	19.04	89	70700	8770	6					
	22.00	77	70700	9520	6					
	24.12	70	70700	10000	6					
	29.57	57	68800	11400	6					
R137  3	27.83	61	67900	11100	6					
	32.91	52	70700	11800	6					
	37.65	45	70700	12000	6					
	44.39	38	70700	12000	6					
	50.86	33	70700	12000	6					
	59.17	29	70700	12000	6					
	65.20	26	70700	12000	6					
	73.49	23	70700	12000	6					
	80.91	21	70700	12000	6					
	88.70	19	70700	12000	6					
	103.20	16	70700	12000	6					
	113.72	15	70700	12000	6					
	128.18	13	70700	12000	6					
	141.12	12	70700	12000	6					
	156.31	11	70700	12000	6					
	174.40	9.7	70700	12000	6					
	188.45	9.0	70700	12000	6					
	222.60	7.6	70700	12000	6					

Weight [lbs]		Stages	213/215	254/256	AM		
R137	NEMA				284/286	324/326	364/365
			2	540	570	580	610
		3	560	590	600	640	640
			132S/M	160	180	200	225
	IEC	2	540	580	580	620	630
		3	570	600	600	640	650

RF137: + 51 lbs / RM137: +296 lbs

8.1.24 R137R77

R137R77, n _e = 1700 rpm							70700 lb-in					
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		φ (/R) [']	AM					
				Lg	Sm		56	143	145	182	184	213/215
175	9.7	70700	12000	3	2	-						
197	8.6	70700	12000	3	2	-						
223	7.6	70700	12000	3	2	-						
255	6.7	70700	12000	3	2	-						
291	5.8	70700	12000	3	2	-						
297	5.7	70700	12000	2	2	-						
323	5.3	70700	12000	3	2	-						
339	5.0	70700	12000	2	2	-						
376	4.5	70700	12000	2	2	-						
381	4.5	70700	12000	3	2	-						
428	4.0	70700	12000	3	2	-						
453	3.8	70700	12000	2	2	-						
490	3.5	70700	12000	3	2	-						
517	3.3	70700	12000	2	2	-						
560	3.0	70700	12000	3	2	-						
564	3.0	70700	12000	2	2	-						
609	2.8	70700	12000	2	3	-						
629	2.7	70700	12000	3	2	-						
699	2.4	70700	12000	2	3	-						
730	2.3	70700	12000	3	2	-						
831	2.0	70700	12000	3	2	-						
888	1.9	70700	12000	2	3	-						
951	1.8	70700	12000	3	2	-						
1043	1.6	70700	12000	2	3	-						
1090	1.6	70700	12000	3	2	-						
1105	1.5	70700	12000	2	3	-						
1226	1.4	70700	12000	3	2	-						
1256	1.4	70700	12000	2	3	-						
1391	1.2	70700	12000	2	3	-						
1397	1.2	70700	12000	3	2	-						
1586	1.1	70700	12000	2	3	-						
1598	1.1	70700	12000	3	2	-						
1839	0.92	70700	12000	3	2	-						
1863	0.91	70700	12000	2	3	-						
2073	0.82	70700	12000	3	2	-						
2242	0.76	70700	12000	2	3	-						
2412	0.70	70700	12000	3	2	-						
2484	0.68	70700	12000	2	3	-						
2658	0.64	70700	12000	3	2	-						
2929	0.58	70700	12000	2	3	-						
2993	0.57	70700	12000	3	3	-						
3338	0.51	70700	12000	2	3	-						
3454	0.49	70700	12000	3	3	-						
3514	0.48	70700	12000	2	3	-						
3928	0.43	70700	12000	3	3	-						
4018	0.42	70700	12000	2	3	-						
4464	0.38	70700	12000	3	3	-						
4709	0.36	70700	12000	2	3	-						
5116	0.33	70700	12000	3	3	-						
5834	0.29	70700	12000	3	3	-						
6559	0.26	70700	12000	3	3	-						



R137R77, n_e = 1700 rpm 70700 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		φ (/R) [']	AM					
				Lg	Sm		56	143	145	182	184	213/215
7479	0.23	70700	12000	3	3	-						
8784	0.19	70700	12000	3	3	-						
10573	0.16	70700	12000	3	3	-						
11712	0.15	70700	12000	3	3	-						
12921	0.13	70700	12000	3	3	-						
14777	0.12	70700	12000	3	3	-						
16566	0.10	70700	12000	3	3	-						
18945	0.09	70700	12000	3	3	-						
22203	0.08	70700	12000	3	3	-						

Weight [lbs]		Stages		AM						
		Large	Small	56	143	145	182	184	213/215	
R137R77	NEMA	2	2	610	610	610	620	620	630	
		2	3	610	610	610	620	620	630	
		3	2	630	630	630	640	640	650	
		3	3	630	640	640	640	640	660	
					71	80	90	100	112	132S/M
	IEC	2	2	610	610	610	620	620	640	
		2	3	610	610	610	620	620	640	
		3	2	630	630	630	640	640	660	
		3	3	630	640	640	650	650	660	

RF137: + 51 lbs / RM137: + 296 lbs

8.1.25 R147

R147, $n_e = 1700$ rpm						115000 lb-in			
Stages	i [ratio]	n_a [rpm]	$T_{a \max}$ [lb-in]	F_{Ra} [lb]	Φ (/R) [']	AM			
						254/256	284/286	324/326	364/365
R147  2	5.00	340	76700	10100	8				
	5.89	289	76700	10900	8				
	7.25	234	76700	12000	8				
	8.26	206	115000	10100	6				
	9.74	175	115000	11000	6				
	11.99	142	115000	12300	5				
	13.91	122	111400	13500	5				
	15.64	109	115000	14100	5				
	18.04	94	92900	15100	5				
R147  3	24.19	70	105200	14500	6				
	29.95	57	115000	14100	6				
	35.64	48	115000	14100	6				
	40.29	42	115000	14100	6				
	46.65	36	115000	14100	6				
	52.87	32	115000	14100	6				
	61.09	28	115000	14100	6				
	66.99	25	115000	14100	6				
	72.09	24	115000	14100	6				
	83.47	20	115000	14100	6				
	94.60	18	115000	14100	6				
	109.31	16	115000	14100	5				
	119.86	14	115000	14100	5				
	146.91	12	115000	14100	5				
163.31	10	115000	14100	5					

8

Weight [lbs]		Stages	AM			
			254/256	284/286	324/326	364/365
R147	NEMA	2	850	860	890	890
		3	880	890	920	920
			160	180	200	225
	IEC	2	860	860	890	910
		3	890	890	920	930

RF147: +18 lbs / RM147: +387 lbs

8.1.26 R147R77

R147R77, n_e = 1700 rpm							115000 lb-in					
i	n_a	T_{a max}	F_{Ra}¹⁾	Stages		φ (/R)	AM					
				Lg	Sm		56	143	145	182	184	213/215
415	4.1	115000	14100	3	2	-						
489	3.5	115000	14100	3	2	-						
558	3.0	115000	14100	3	2	-						
619	2.7	115000	14100	3	2	-						
695	2.4	115000	14100	3	2	-						
784	2.2	115000	14100	3	2	-						
889	1.9	115000	14100	3	2	-						
1029	1.7	115000	14100	3	2	-						
1166	1.5	115000	14100	3	2	-						
1329	1.3	115000	14100	3	2	-						
1536	1.1	115000	14100	3	2	-						
1705	1.0	115000	14100	3	2	-						
1951	0.87	115000	14100	3	2	-						
2211	0.77	115000	14100	3	2	-						
2555	0.67	115000	14100	3	2	-						
2898	0.59	115000	14100	3	3	-						
3302	0.51	115000	14100	3	3	-						
3754	0.45	115000	14100	3	3	-						
4325	0.39	115000	14100	3	3	-						
4926	0.35	115000	14100	3	3	-						
5568	0.31	115000	14100	3	3	-						
6447	0.26	115000	14100	3	3	-						
7307	0.23	115000	14100	3	3	-						
8443	0.20	115000	14100	3	3	-						
9743	0.17	115000	14100	3	3	-						
11143	0.15	115000	14100	3	3	-						
12344	0.14	115000	14100	3	3	-						
14075	0.12	115000	14100	3	3	-						
15923	0.11	115000	14100	3	3	-						
18210	0.09	115000	14100	3	3	-						
21342	0.08	115000	14100	3	3	-						
23401	0.07	115000	14100	3	3	-						

Weight [lbs]		Stages		AM					
		Large	Small	56	143	145	182	184	213/215
R147R77	NEMA	3	2	920	920	920	930	930	950
		3	3	920	930	930	940	940	950
			71	80	90	100	112	132S/M	
	IEC	3	2	920	920	920	930	930	950
		3	3	920	930	930	940	940	950

RF147: +18 lbs / RM147: +387 lbs



8.1.27 R147R87

R147R87, $n_e = 1700$ rpm							115000 lb-in						
i [ratio]	n_a [rpm]	$T_{a \max}$ [lb-in]	$F_{Ra}^{1)}$ [lb]	Stages		ϕ (/R) [']	AM						
				Lg	Sm		143	145	182	184	213/215	254/256	284/286
159	11	115000	14100	3	2	-							
189	9.0	115000	14100	3	2	-							
214	7.9	115000	14100	3	2	-							
247	6.9	115000	14100	3	2	-							
280	6.1	115000	14100	3	2	-							
326	5.2	115000	14100	3	2	-							
368	4.6	115000	14100	3	2	-							
426	4.0	115000	14100	3	2	-							
462	3.7	115000	14100	3	2	-							
533	3.2	115000	14100	3	2	-							

Weight [lbs]	Stages		AM							
	Large	Small	143	145	182	184	213/215	254/256	284/286	
R147R87	NEMA	3	2	970	970	980	980	990	1020	1030
				80	90	100	112	132S/M	160	180
	IEC	3	2	970	970	980	980	1000	1030	1030

RF147: + 18 lbs / RM147: + 387 lbs

8.1.28 R167

R167, n_e = 1700 rpm						159200 lb-in			
Stages	i [ratio]	n _a [rpm]	T _a max [lb-in]	F _{Ra} [lb]	Φ (/R) [']	AM			
						254/256	284/286	324/326	364/365
R167  2	10.24	166	150400	16900	5				
	11.99	142	150400	18200	5				
	14.48	117	159200	19300	5				
	16.98	100	132700	22600	5				
	19.03	89	141500	23100	5				
	21.85	78	115000	26300	5				
	24.57	69	123800	26900	5				
	30.71	55	88400	27000	5				
	37.74	45	79600	27000	5				
	46.00	37	61900	27000	5				
R167  3	23.71	72	159200	24100	6				
	27.96	61	159200	25900	6				
	34.41	49	159200	27000	6				
	39.92	43	159200	27000	6				
	44.87	38	159200	27000	6				
	51.76	33	159200	27000	6				
	58.65	29	159200	27000	6				
	67.40	25	159200	27000	6				
	73.70	23	159200	27000	6				
	82.91	21	159200	27000	5				
	93.19	18	159200	27000	5				
	107.49	16	159200	27000	5				
	121.81	14	159200	27000	5				
	139.98	12	159200	27000	5				
	153.07	11	159200	27000	5				
186.93	9.1	159200	27000	5					
229.71	7.4	159200	27000	5					

Weight [lbs]		Stages	AM			
			254/256	284/286	324/326	364/365
R167	NEMA	2	1420	1420	1470	1470
		3	1430	1430	1480	1480
			160	180	200	225
	IEC	2	1430	1430	1470	1480
		3	1440	1440	1480	1490

RF167: +14 lbs / RM167: +444 lbs

8.1.29 R167R97

R167R97, n _e = 1700 rpm							159200 lb-in						
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		Φ (/R) [']	AM						
				Lg	Sm		182	184	213/215	254/256	284/286	324/326	364/365
279	6.1	159200	27000	3	2	-							
303	5.6	159200	27000	3	2	-							
335	5.1	159200	27000	3	2	-							
376	4.5	159200	27000	3	2	-							
432	3.9	159200	27000	3	2	-							
503	3.4	159200	27000	3	2	-							
579	2.9	159200	27000	3	2	-							
656	2.6	159200	27000	3	2	-							
760	2.2	159200	27000	3	2	-							
861	2.0	159200	27000	3	2	-							
999	1.7	159200	27000	3	2	-							
1123	1.5	159200	27000	3	2	-							
1279	1.3	159200	27000	3	2	-							
1438	1.2	159200	27000	3	2	-							
1670	1.0	159200	27000	3	2	-							
1877	0.91	159200	27000	3	2	-							
2085	0.82	159200	27000	3	2	-							
2333	0.73	159200	27000	3	2	-							
2657	0.64	159200	27000	3	2	-							
3099	0.55	159200	27000	3	3	-							
3692	0.46	159200	27000	3	3	-							
4129	0.41	159200	27000	3	3	-							
4650	0.37	159200	27000	3	3	-							
5407	0.31	159200	27000	3	3	-							
6077	0.28	159200	27000	3	3	-							
6894	0.25	159200	27000	3	3	-							
7749	0.22	159200	27000	3	3	-							
10509	0.16	159200	27000	3	3	-							
11812	0.14	159200	27000	3	3	-							
14051	0.12	159200	27000	3	3	-							
15446	0.11	159200	27000	3	3	-							
17361	0.10	159200	27000	3	3	-							

8

Weight [lbs]		Stages		AM							
		Large	Small	182	184	213/215	254/256	284/286	324/326	364/365	
R167R97	NEMA	3	2	1660	1660	1670	1700	1710	1740	1740	
		3	3	1660	1660	1680	1710	1710	1750	1750	
					100	112	132S/M	160	180	200	225
	IEC	3	2	1660	1660	1670	1710	1710	1750	1760	
		3	3	1670	1670	1680	1720	1720	1760	1770	
	RF167: + 14 lbs / RM167: + 444 lbs										

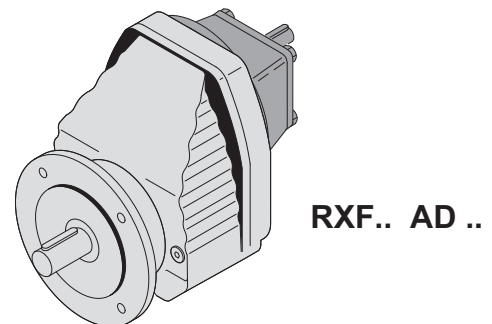
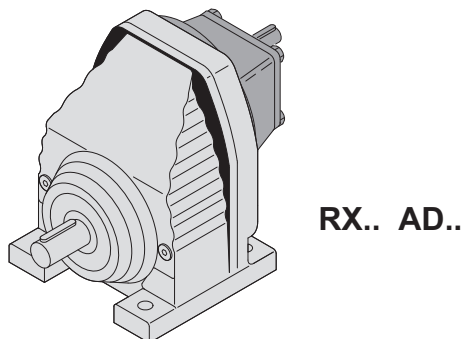
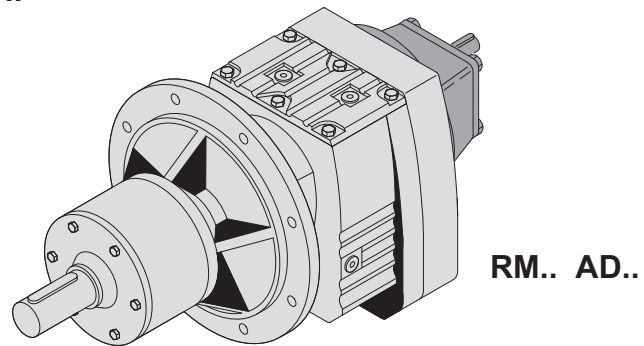
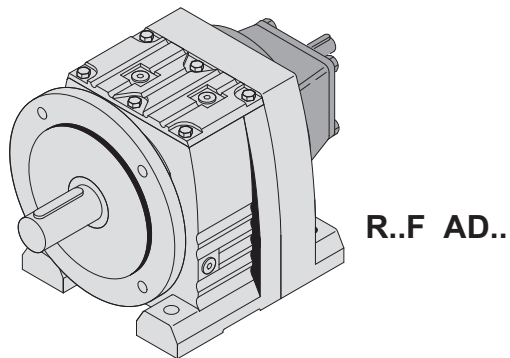
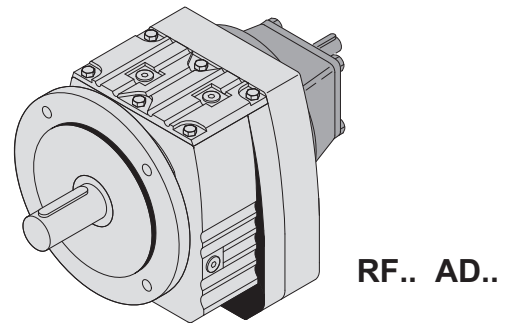
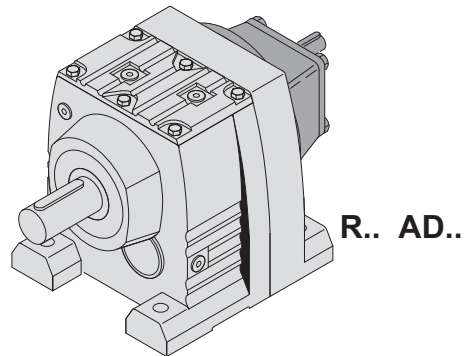
8.1.30 R167R107

R167R107, n_e = 1700 rpm							159200 lb-in						
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	F _{Ra} ¹⁾ [lb]	Stages		φ (/R) [']	AM						
				Lg	Sm		182	184	213/215	254/256	284/286	324/326	364/365
168	10	159200	27000	2	2	-							
169	10	159200	27000	3	2	-							
198	8.6	159200	27000	2	2	-							
200	8.5	159200	27000	3	2	-							
227	7.5	159200	27000	2	2	-							
229	7.4	159200	27000	3	2	-							
264	6.4	159200	27000	2	2	-							
270	6.3	159200	27000	3	2	-							
291	5.8	159200	27000	2	2	-							
295	5.8	159200	27000	3	2	-							
328	5.2	159200	27000	2	2	-							
349	4.9	159200	27000	3	2	-							
361	4.7	159200	27000	2	2	-							
399	4.3	159200	27000	2	2	-							
446	3.8	159200	27000	2	2	-							
511	3.3	159200	27000	2	3	-							
585	2.9	159200	27000	2	3	-							
690	2.5	159200	27000	2	3	-							
763	2.2	159200	27000	2	3	-							
860	2.0	159200	27000	2	3	-							
950	1.8	159200	27000	2	3	-							
1111	1.5	159200	27000	2	3	-							
1229	1.4	159200	27000	2	3	-							
1342	1.3	159200	27000	2	3	-							
1485	1.1	159200	27000	2	3	-							
1674	1.0	159200	27000	2	3	-							
1849	0.92	159200	27000	2	3	-							
2066	0.82	159200	27000	2	3	-							
2298	0.74	159200	27000	2	3	-							
2436	0.70	159200	27000	2	3	-							
2757	0.62	159200	27000	2	3	-							
3330	0.51	159200	27000	2	3	-							
3637	0.47	159200	27000	2	3	-							

Weight [lbs]		Stages		AM						
		Large	Small	182	184	213/215	254/256	284/286	324/326	364/365
R167R107	NEMA	2	2	1750	1750	1750	1790	1790	1830	1830
		2	3	1760	1760	1770	1800	1810	1850	1850
		3	2	1760	1760	1770	1800	1810	1850	1850
	IEC			100	112	132S/M	160	180	200	225
		2	2	1750	1750	1760	1800	1800	1840	1850
		2	3	1760	1760	1770	1810	1810	1850	1860
		3	2	1760	1760	1770	1810	1810	1850	1860


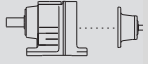
RF167: + 14 lbs / RM167: + 444 lbs



8.2 R / RX.. AD



R_AD

8.2.1 RX57 - RX107


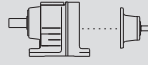
i [ratio]	n _a [rpm]	M _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']			
						Lg	Sm				
RX57 AD.. , n_e = 1700 rpm											610 lb-in
2.64	644	610	6.3	330	170	1	-	-	-		
2.91	584	430	4.0	490	240	1	-	-	-		
3.14	541	580	5.1	480	190	1	-	-	-		
3.55	479	490	3.8	520	230	1	-	-	-		
3.79	449	510	3.7	530	230	1	-	-	-		RX57
4.35	391	540	3.4	560	220	1	-	-	-		AD2
5.07	335	300	1.6	640	110	1	-	-	-		
5.50	309	330	1.6	650	80	1	-	-	-		
1.30	1308	560	11.8	0	340	1	-	-	M2		
1.48	1149	600	11.1	0	330	1	-	-	-		
1.65	1030	610	10.1	30	340	1	-	-	-		
1.92	885	610	8.7	130	360	1	-	-	-		
2.04	833	610	8.2	170	370	1	-	-	-		
2.37	717	610	7.0	260	380	1	-	-	-		
2.64	644	610	6.3	330	390	1	-	-	-		
3.14	541	580	5.1	480	410	1	-	-	-		
RX67 AD.. , n_e = 1700 rpm											1090 lb-in
3.77	451	770	5.6	640	170	1	-	-	-		
4.30	395	610	3.9	700	230	1	-	-	-		
4.53	375	630	3.8	710	220	1	-	-	-		
5.18	328	660	3.5	750	220	1	-	-	-		
6.07	280	360	1.6	840	110	1	-	-	-		
1.40	1214	800	15.6	140	280	1	-	-	M1-6		
1.61	1056	880	15.0	150	270	1	-	-	M2		
1.86	914	960	14.1	170	240	1	-	-	M2		
2.04	833	1010	13.6	180	230	1	-	-	-		
2.40	708	1090	12.4	240	220	1	-	-	-		
2.54	669	1040	11.2	340	270	1	-	-	-		
2.89	588	930	8.8	550	320	1	-	-	-		
3.20	531	890	7.6	580	340	1	-	-	-		
3.77	451	770	5.6	640	390	1	-	-	-		
RX77 AD.. , n_e = 1700 rpm											1900 lb-in
5.35	318	890	4.6	1100	200	1	-	-	-		
5.63	302	950	4.6	1110	190	1	-	-	-		
6.41	265	890	3.8	1180	210	1	-	-	-		
7.47	228	440	1.6	1310	110	1	-	-	-		
8.00	213	480	1.6	1330	80	1	-	-	-		
3.70	459	1270	9.4	910	310	1	-	-	-		
4.04	421	1270	8.6	940	310	1	-	-	-		
4.73	359	1090	6.3	1020	360	1	-	-	-		
1.42	1197	1370	26	0	580	1	-	-	M1-6		
1.67	1018	1530	25	0	560	1	-	-	M1-6		
1.88	904	1650	24	0	550	1	-	-	M1-6		
2.13	798	1770	23	0	540	1	-	-	M1-6		
2.43	700	1900	21	0	530	1	-	-	M2		
2.70	630	1900	19.3	120	560	1	-	-	-		
3.08	552	1710	15.2	440	620	1	-	-	-		
3.25	523	1610	13.6	580	640	1	-	-	-		
RX87 AD.. , n_e = 1700 rpm											3580 lb-in
7.20	236	1200	4.6	1550	210	1	-	-	-		
7.63	223	1280	4.6	1570	200	1	-	-	-		
8.65	197	1230	3.9	1650	210	1	-	-	-		
5.07	335	1900	10.3	1280	270	1	-	-	-		
5.56	306	1990	9.8	1320	250	1	-	-	-		
6.45	264	1700	7.2	1430	330	1	-	-	-		

i [ratio]	n _a [rpm]	Ma _{max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (°/R) [']			
						Lg	Sm				
3.78	450	2700	19.6	1040	570	1	-	-	-		
4.50	378	2570	15.6	1140	610	1	-	-	-		RX87 AD4
1.39	1223	2570	51	0	1080	1	-	-	M1-6		
1.60	1063	2790	48	0	1070	1	-	-	M1-6		
1.93	881	3140	45	0	1050	1	-	-	M1-6		RX87 AD5
2.15	791	3410	43	0	1020	1	-	-	M1-6		
2.48	685	3580	40	0	1030	1	-	-	M1-6		
2.76	616	3580	36	90	1050	1	-	-	M1-6		
3.09	550	3580	32	250	1070	1	-	-	M1-6		RX87 AD5
3.48	489	3580	28	420	1090	1	-	-	-		
RX97 AD.. , n_e = 1700 rpm											5270 lb-in
6.56	259	2660	11.1	1770	210	1	-	-	-		
7.16	237	2300	8.8	1870	300	1	-	-	-		RX97 AD3
8.23	207	1990	6.6	2000	350	1	-	-	-		
4.91	346	3500	19.5	1500	570	1	-	-	-		RX97 AD4
5.79	294	3720	17.6	1590	550	1	-	-	-		
1.42	1197	3890	75	0	930	1	-	-	M1-6		
1.64	1037	4470	75	0	880	1	-	-	M1-6		
1.96	867	5040	70	0	810	1	-	-	M1-6		
2.24	759	5270	64	0	810	1	-	-	M1-6		
2.64	644	5270	55	230	900	1	-	-	M1-6		
2.92	582	5270	49	410	930	1	-	-	M1-6		
3.30	515	5270	44	600	950	1	-	-	M1-6		
3.64	467	5270	40	780	970	1	-	-	M2		
4.04	421	5270	36	960	990	1	-	-	-		
4.52	376	5270	32	1150	1010	1	-	-	-		
1.42	1197	4030	78	0	1530	1	-	-	M1-6		
1.64	1037	4470	75	0	1500	1	-	-	M1-6		
1.96	867	5040	70	0	1470	1	-	-	M1-6		
2.24	759	5270	64	0	1480	1	-	-	M1-6		
2.64	644	5270	55	230	1520	1	-	-	M1-6		
2.92	582	5270	49	410	1550	1	-	-	M1-6		
3.30	515	5270	44	600	1570	1	-	-	M2		
3.64	467	5270	40	780	1590	1	-	-	M2		
RX107 AD.. , n_e = 1700 rpm											7350 lb-in
5.61	303	4030	19.7	1890	530	1	-	-	-		
6.63	256	4070	16.8	2020	540	1	-	-	-		RX107 AD4
3.38	503	7350	60	740	560	1	-	-	M1-6		
3.81	446	7350	53	970	610	1	-	-	M2		
4.20	405	7350	48	1150	660	1	-	-	-		RX107 AD5
4.65	366	6150	36	1530	940	1	-	-	-		
5.19	328	6150	32	1620	950	1	-	-	-		
1.44	1181	4780	91	380	1440	1	-	-	M1-6		
1.71	994	5660	91	200	1360	1	-	-	M1-6		
1.95	872	6460	91	60	1290	1	-	-	M1-6		
2.30	739	7350	88	0	1160	1	-	-	M1-6		
2.64	644	7350	76	240	1260	1	-	-	M1-6		
3.07	554	7350	66	550	1330	1	-	-	M1-6		
3.38	503	7350	60	740	1350	1	-	-	M1-6		
3.81	446	7350	53	970	1380	1	-	-	M2		
4.20	405	7350	48	1150	1400	1	-	-	-		

Weight [lbs]						
Gear Unit	Stages	AD2	AD3	AD4	AD5	AD6
RX57	1	28	35			
RXF57	1	32	39			
RX67	1	24	41			

Weight [lbs]						
Gear Unit	Stages	AD2	AD3	AD4	AD5	AD6
RXF67	1	43	50			
RX77	1	55	63	76		
RXF77	1	60	68	81		
RX87	1	91	100	115	145	
RXF87	1	100	110	125	155	
RX97	1		155	165	200	230
RXF97	1		175	185	220	250
RX107	1			240	270	300
RXF107	1			280	310	340



8.2.2 R27

R27 AD.. , n _e = 1700 rpm										1150 lb-in	
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{RA} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ ^(/R) [']			
						Lg	Sm				
24.47	69	1150	1.3	570	80	3	-	-	-		
26.09	65	770	0.82	640	60	2	-	-	-		
28.37	60	790	0.77	660	50	2	-	-	-		
28.78	59	1150	1.1	610	90	3	-	-	-		
32.47	52	1150	1.0	640	90	3	-	-	-		
36.79	46	1150	0.88	680	100	3	-	-	-		
39.25	43	1150	0.83	700	100	3	-	-	-		
44.90	38	1150	0.72	730	110	3	-	-	-		
48.17	35	1150	0.67	760	110	3	-	-	-		
55.87	30	1150	0.58	800	110	3	-	-	-		R27 AD1
61.30	28	1150	0.53	830	150	3	-	-	-		
69.47	24	1150	0.47	870	150	3	-	-	-		
74.11	23	1150	0.44	890	150	3	-	-	-		
84.78	20	1150	0.38	940	150	3	-	-	-		
90.96	19	1150	0.36	950	160	3	-	-	-		
105.49	16	1150	0.31	950	160	3	-	-	-		
123.91	14	1150	0.26	950	160	3	-	-	-		
135.09	13	1150	0.24	950	160	3	-	-	-		
3.37	504	700	5.8	150	240	2	-	-	M2		
4.00	425	750	5.2	150	240	2	-	-	-		
4.27	398	770	5.0	150	240	2	-	-	-		
5.00	340	840	4.7	140	240	2	-	-	-		
5.60	304	880	4.4	140	240	2	-	-	-		
6.59	258	940	4.0	140	240	2	-	-	-		
7.63	223	990	3.6	140	240	2	-	-	-		
8.16	208	1030	3.5	130	230	2	-	-	-		
9.41	181	1080	3.2	130	230	2	-	-	-		
10.13	168	1080	3.0	350	310	2	-	-	-		
11.86	143	1140	2.7	370	310	2	-	-	-		
13.28	128	1150	2.4	410	310	2	-	-	-		
15.63	109	1150	2.0	470	320	2	-	-	-		
18.08	94	1150	1.8	500	320	2	-	-	-		
19.35	88	1150	1.7	520	320	2	-	-	-		
22.32	76	1150	1.4	550	190	2	-	-	-		
24.47	69	1150	1.3	570	340	3	-	-	-		
26.09	65	1150	1.2	590	200	2	-	-	-		R27 AD2
28.37	60	1150	1.1	610	210	2	-	-	-		
28.78	59	1150	1.1	610	350	3	-	-	-		
32.47	52	1150	1.0	640	350	3	-	-	-		
36.79	46	1150	0.88	680	360	3	-	-	-		
39.25	43	1150	0.83	700	360	3	-	-	-		
44.90	38	1150	0.72	730	370	3	-	-	-		
48.17	35	1150	0.67	760	370	3	-	-	-		
55.87	30	1150	0.58	800	370	3	-	-	-		
61.30	28	1150	0.53	830	380	3	-	-	-		
69.47	24	1150	0.47	870	380	3	-	-	-		
74.11	23	1150	0.44	890	380	3	-	-	-		
84.78	20	1150	0.38	940	380	3	-	-	-		
90.96	19	1150	0.36	950	380	3	-	-	-		
105.49	16	1150	0.31	950	380	3	-	-	-		
123.91	14	1150	0.26	950	390	3	-	-	-		
135.09	13	1150	0.24	950	390	3	-	-	-		

Weight [lbs]	Stages		AD1	AD2
	Large	Small		
R27	2	-	13	15
	3	-	13	15

RF27: +0 lbs



8.2.3 R37

R37 AD.. , n _e = 1700 rpm										1770 lb-in		
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			R37	AD1
						Lg	Sm					
55.76	30	1770	0.90	1110	60	3	-	9	-			
61.18	28	1770	0.82	1110	120	3	-	8	-			
69.33	25	1770	0.72	1110	120	3	-	8	-			
73.96	23	1770	0.68	1110	120	3	-	8	-			
84.61	20	1770	0.59	1110	130	3	-	8	-			
90.77	19	1770	0.55	1110	130	3	-	8	-			
105.28	16	1770	0.47	1110	130	3	-	8	-			
123.66	14	1770	0.40	1110	140	3	-	8	-			
134.82	13	1770	0.37	1110	140	3	-	8	-			
3.41	499	950	7.7	180	190	2	-	14	M1-6			
4.05	420	1070	7.3	130	180	2	-	13	M1-6			
4.32	394	1120	7.2	110	180	2	-	13	M2			
5.06	336	1190	6.5	100	170	2	-	13	-			
5.67	300	1260	6.2	90	170	2	-	12	-			
6.67	255	1270	5.3	140	180	2	-	12	-			
7.97	213	1380	4.8	300	270	2	-	8	-			
9.47	180	1480	4.3	310	270	2	-	8	-			
10.11	168	1500	4.1	320	270	2	-	8	-			
11.83	144	1620	3.8	310	270	2	-	8	-			
13.25	128	1680	3.5	320	270	2	-	8	-			
15.60	109	1770	3.2	340	270	2	-	8	-			
18.05	94	1770	2.7	420	280	2	-	8	-			
19.31	88	1770	2.5	460	280	2	-	7	-			
22.27	76	1770	2.2	550	280	2	-	7	-			
24.42	70	1770	2.0	600	340	3	-	9	-			
26.03	65	1530	1.6	820	110	2	-	7	-		R37	AD2
28.32	60	1670	1.6	770	80	2	-	7	-			
28.73	59	1770	1.7	710	340	3	-	9	-			
32.40	52	1770	1.5	790	280	3	-	9	-			
36.72	46	1770	1.4	880	290	3	-	9	-			
39.17	43	1770	1.3	920	290	3	-	9	-			
44.81	38	1770	1.1	1020	300	3	-	9	-			
48.08	35	1770	1.0	1080	310	3	-	9	-			
55.76	30	1770	0.90	1110	310	3	-	9	-			
61.18	28	1770	0.82	1110	370	3	-	8	-			
69.33	25	1770	0.72	1110	370	3	-	8	-			
73.96	23	1770	0.68	1110	370	3	-	8	-			
84.61	20	1770	0.59	1110	380	3	-	8	-			
90.77	19	1770	0.55	1110	380	3	-	8	-			
105.28	16	1770	0.47	1110	380	3	-	8	-			
123.66	14	1770	0.40	1110	380	3	-	8	-			
134.82	13	1770	0.37	1110	380	3	-	8	-			

Weight [lbs]	Stages		AD1	AD2
	Large	Small		
R37	2	-	-	28
	3	-	26	29

RF37: +3 lbs

8.2.4 R47



R47 AD.. , n _e = 1700 rpm										2660 lb-in	
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm				
23.59	72	2660	3.2	770	330	3	-	8	-		
26.70	64	2660	2.8	840	330	3	-	8	-		
26.74	64	2660	2.8	840	260	2	-	7	-		
29.88	57	2660	2.5	880	330	3	-	8	-		
31.12	55	1810	1.6	970	120	2	-	7	-		
33.79	50	1990	1.6	990	80	2	-	7	-		
34.73	49	2660	2.2	940	340	3	-	8	-		
36.93	46	2660	2.0	960	340	3	-	8	-		
42.87	40	2660	1.8	1020	340	3	-	8	-		
47.75	36	2660	1.6	1070	270	3	-	8	-		
52.69	32	2660	1.4	1110	280	3	-	8	-		
56.73	30	2660	1.3	1150	280	3	-	8	-		R47 AD2
64.21	26	2660	1.2	1210	290	3	-	8	-		
68.54	25	2660	1.1	1220	290	3	-	8	-		
76.23	22	2660	0.98	1220	370	3	-	7	-		
84.90	20	2660	0.88	1220	370	3	-	7	-		
93.68	18	2660	0.80	1220	370	3	-	7	-		
100.86	17	2660	0.74	1220	370	3	-	7	-		
114.17	15	2660	0.66	1220	370	3	-	7	-		
121.87	14	2660	0.62	1220	370	3	-	7	-		
139.99	12	2660	0.54	1220	370	3	-	7	-		
162.94	10	2660	0.46	1220	370	3	-	7	-		
176.88	9.6	2660	0.42	1220	370	3	-	7	-		
3.83	444	1270	9.2	430	400	2	-	11	M2		
4.34	392	1290	8.3	450	410	2	-	11	-		
4.85	351	1330	7.6	470	410	2	-	10	-		
5.64	301	1370	6.8	500	420	2	-	10	-		
6.00	283	1380	6.4	510	420	2	-	10	-		
6.96	244	1410	5.6	540	430	2	-	10	-		
7.76	219	1440	5.2	560	430	2	-	10	-		
8.01	212	1810	6.3	560	470	2	-	8	-		
9.07	187	1950	6.0	550	470	2	-	8	-		
10.15	167	2040	5.6	560	470	2	-	7	-		
11.79	144	2170	5.1	580	470	2	-	7	-		
12.54	136	2210	4.9	590	470	2	-	7	-		R47 AD3
14.56	117	2350	4.5	610	470	2	-	7	-		
16.22	105	2430	4.2	630	470	2	-	7	-		
19.27	88	2610	3.8	640	460	2	-	7	-		
23.59	72	2660	3.2	770	540	3	-	8	-		
26.70	64	2660	2.8	840	540	3	-	8	-		
29.88	57	2660	2.5	880	550	3	-	8	-		
34.73	49	2660	2.2	940	550	3	-	8	-		
36.93	46	2660	2.0	960	550	3	-	8	-		
42.87	40	2660	1.8	1020	550	3	-	8	-		
47.75	36	2660	1.6	1070	560	3	-	8	-		
56.73	30	2660	1.3	1150	560	3	-	8	-		

Weight [lbs]	Stages		AD2	AD3
	Large	Small		
R47	2	-	36	43
	3	-	38	45

RF47: +1 lbs


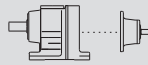
8.2.5 R47R37

R47R37 AD.. , n_e = 1700 rpm 2660 lb-in


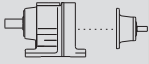
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _[(R)]		
						Lg	Sm			
98	17	2660	0.78	1220	130	2	2	-	-	
109	16	2660	0.70	1220	130	2	2	-	-	
129	13	2660	0.59	1220	130	2	2	-	-	
154	11	2660	0.49	1220	160	2	2	-	-	
182	9.3	2660	0.42	1220	160	2	2	-	-	
195	8.7	2660	0.39	1220	160	2	2	-	-	
228	7.5	2660	0.33	1220	160	2	2	-	-	
255	6.7	2660	0.30	1220	160	2	2	-	-	
301	5.6	2660	0.25	1220	160	2	2	-	-	
344	4.9	2660	0.22	1220	170	3	2	-	-	
348	4.9	2660	0.22	1220	160	2	2	-	-	
372	4.6	2660	0.20	1220	160	2	2	-	-	
408	4.2	2660	0.19	1220	170	3	2	-	-	
429	4.0	2660	0.18	1220	160	2	2	-	-	
436	3.9	2660	0.18	1220	170	3	2	-	-	
471	3.6	2660	0.16	1220	170	2	3	-	-	
502	3.4	2660	0.15	1220	160	2	2	-	-	
510	3.3	2660	0.15	1220	170	3	2	-	-	
546	3.1	2660	0.14	1220	160	2	2	-	-	
554	3.1	2660	0.14	1220	170	2	3	-	-	
572	3.0	2660	0.14	1220	170	3	2	-	-	
624	2.7	2660	0.12	1220	170	2	3	-	-	
673	2.5	2660	0.11	1220	170	3	2	-	-	
708	2.4	2660	0.11	1220	170	2	3	-	-	
755	2.3	2660	0.10	1220	170	2	3	-	-	
804	2.1	2660	0.10	1220	170	3	2	-	-	
863	2.0	2660	0.09	1220	170	2	3	-	-	
927	1.8	2660	0.08	1220	170	2	3	-	-	
955	1.8	2660	0.08	1220	170	3	2	-	-	
1020	1.7	2660	0.08	1220	170	3	2	-	-	R47R37
1074	1.6	2660	0.07	1220	170	2	3	-	-	AD1
1179	1.4	2660	0.07	1220	170	2	3	-	-	
1193	1.4	2660	0.06	1220	170	3	2	-	-	
1336	1.3	2660	0.06	1220	170	2	3	-	-	
1425	1.2	2660	0.05	1220	170	2	3	-	-	
1573	1.1	2660	0.05	1220	170	3	2	-	-	
1630	1.0	2660	0.05	1220	170	2	3	-	-	
1749	0.97	2660	0.04	1220	170	2	3	-	-	
1821	0.93	2660	0.04	1220	170	3	2	-	-	
1948	0.87	2660	0.04	1220	170	3	2	-	-	
2029	0.84	2660	0.04	1220	170	2	3	-	-	
2246	0.76	2660	0.03	1220	170	3	2	-	-	
2383	0.71	2660	0.03	1220	170	2	3	-	-	
2463	0.69	2660	0.03	1220	170	3	3	-	-	
2598	0.65	2660	0.03	1220	170	2	3	-	-	
2625	0.65	2660	0.03	1220	170	3	2	-	-	
2856	0.60	2660	0.03	1220	170	3	2	-	-	
2898	0.59	2660	0.03	1220	170	3	3	-	-	
3268	0.52	2660	0.02	1220	170	3	3	-	-	
3704	0.46	2660	0.02	1220	170	3	3	-	-	
3951	0.43	2660	0.02	1220	170	3	3	-	-	
4520	0.38	2660	0.02	1220	170	3	3	-	-	
4849	0.35	2660	0.02	1220	170	3	3	-	-	
5624	0.30	2660	0.01	1220	170	3	3	-	-	
6171	0.28	2660	0.01	1220	170	3	3	-	-	
6993	0.24	2660	0.01	1220	170	3	3	-	-	
7460	0.23	2660	0.01	1220	170	3	3	-	-	
8534	0.20	2660	0.01	1220	170	3	3	-	-	

R47R37 AD.. , n_e = 1700 rpm

2660 lb-in



i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _[(R)]			
						Lg	Sm				
9155	0.19	2660	0.01	1220	170	3	3	-	-		
10619	0.16	2660	0.01	1220	170	3	3	-	-		
12472	0.14	2660	0.01	1220	170	3	3	-	-		
13598	0.13	2660	0.01	1220	170	3	3	-	-		
98	17	2660	0.78	1220	370	2	2	-	-		
109	16	2660	0.70	1220	380	2	2	-	-		
129	13	2660	0.59	1220	380	2	2	-	-		
154	11	2660	0.49	1220	390	2	2	-	-		
182	9.3	2660	0.42	1220	390	2	2	-	-		
195	8.7	2660	0.39	1220	390	2	2	-	-		
228	7.5	2660	0.33	1220	390	2	2	-	-		
255	6.7	2660	0.30	1220	390	2	2	-	-		
301	5.6	2660	0.25	1220	390	2	2	-	-		
344	4.9	2660	0.22	1220	390	3	2	-	-		
348	4.9	2660	0.22	1220	390	2	2	-	-		
372	4.6	2660	0.20	1220	390	2	2	-	-		
408	4.2	2660	0.19	1220	400	3	2	-	-		
429	4.0	2660	0.18	1220	390	2	2	-	-		
436	3.9	2660	0.18	1220	400	3	2	-	-		
471	3.6	2660	0.16	1220	400	2	3	-	-		
502	3.4	2660	0.15	1220	390	2	2	-	-		
510	3.3	2660	0.15	1220	400	3	2	-	-		
546	3.1	2660	0.14	1220	390	2	2	-	-		
554	3.1	2660	0.14	1220	400	2	3	-	-		
572	3.0	2660	0.14	1220	400	3	2	-	-		
624	2.7	2660	0.12	1220	400	2	3	-	-		
673	2.5	2660	0.11	1220	400	3	2	-	-		
708	2.4	2660	0.11	1220	400	2	3	-	-		
755	2.3	2660	0.10	1220	400	2	3	-	-		
804	2.1	2660	0.10	1220	400	3	2	-	-		
863	2.0	2660	0.09	1220	400	2	3	-	-		
927	1.8	2660	0.08	1220	400	2	3	-	-		
955	1.8	2660	0.08	1220	400	3	2	-	-		
1020	1.7	2660	0.08	1220	400	3	2	-	-		
1074	1.6	2660	0.07	1220	400	2	3	-	-		
1179	1.4	2660	0.07	1220	400	2	3	-	-		
1193	1.4	2660	0.06	1220	400	3	2	-	-		
1336	1.3	2660	0.06	1220	400	2	3	-	-		
1425	1.2	2660	0.05	1220	400	2	3	-	-		
1573	1.1	2660	0.05	1220	400	3	2	-	-		
1630	1.0	2660	0.05	1220	400	2	3	-	-		
1749	0.97	2660	0.04	1220	400	2	3	-	-		
1821	0.93	2660	0.04	1220	400	3	2	-	-		
1948	0.87	2660	0.04	1220	400	3	2	-	-		
2029	0.84	2660	0.04	1220	400	2	3	-	-		
2246	0.76	2660	0.03	1220	400	3	2	-	-		
2383	0.71	2660	0.03	1220	400	2	3	-	-		
2463	0.69	2660	0.03	1220	400	3	3	-	-		
2598	0.65	2660	0.03	1220	400	2	3	-	-		
2625	0.65	2660	0.03	1220	400	3	2	-	-		
2856	0.60	2660	0.03	1220	400	3	2	-	-		
2898	0.59	2660	0.03	1220	400	3	3	-	-		
3268	0.52	2660	0.02	1220	400	3	3	-	-		
3704	0.46	2660	0.02	1220	400	3	3	-	-		
3951	0.43	2660	0.02	1220	400	3	3	-	-		
4520	0.38	2660	0.02	1220	400	3	3	-	-		
4849	0.35	2660	0.02	1220	400	3	3	-	-		
5624	0.30	2660	0.01	1220	400	3	3	-	-		
6171	0.28	2660	0.01	1220	400	3	3	-	-		

R47R37 AD.. , n_e = 1700 rpm 2660 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ ^(R) [°]		
						Lg	Sm			
6993	0.24	2660	0.01	1220	400	3	3	-	-	R47R37 AD2
7460	0.23	2660	0.01	1220	400	3	3	-	-	
8534	0.20	2660	0.01	1220	400	3	3	-	-	
9155	0.19	2660	0.01	1220	400	3	3	-	-	
10619	0.16	2660	0.01	1220	400	3	3	-	-	
12472	0.14	2660	0.01	1220	400	3	3	-	-	
13598	0.13	2660	0.01	1220	400	3	3	-	-	

Weight [lbs]	Stages		AD1	AD2
	Large	Small		
R47R37	2	2	57	60
	2	3	58	61
	3	2	57	60
	3	3	58	61
RF47: +1 lbs				


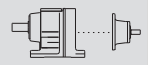
8.2.6 R57

R57 AD.. , n _e = 1700 rpm										3980 lb-in	
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm			R57	AD2
26.97	63	3980	4.2	990	300	3	-	8	-	R57	AD2
30.18	56	3980	3.7	1040	300	3	-	8	-		
35.07	48	3980	3.2	1110	310	3	-	8	-		
37.30	46	3980	3.0	1140	310	3	-	8	-		
43.30	39	3980	2.6	1220	320	3	-	8	-		
48.23	35	3980	2.3	1280	320	3	-	8	-		
53.22	32	3980	2.1	1330	320	3	-	8	-		
57.29	30	3980	2.0	1370	320	3	-	8	-		
64.85	26	3980	1.7	1450	330	3	-	8	-		
69.23	25	3980	1.6	1490	200	3	-	7	-		
80.55	21	3980	1.4	1580	310	3	-	7	-		
89.71	19	3980	1.3	1600	320	3	-	7	-		
98.99	17	3980	1.1	1600	320	3	-	7	-		
106.58	16	3980	1.1	1600	330	3	-	7	-		
120.63	14	3980	0.93	1600	330	3	-	7	-		
128.77	13	3980	0.87	1600	340	3	-	7	-		
147.92	11	3980	0.76	1600	340	3	-	7	-		
172.17	9.9	3980	0.65	1600	350	3	-	7	-		
186.89	9.1	3980	0.60	1600	350	3	-	7	-		
4.39	387	2480	15.7	310	290	2	-	10	M1-6	R57	AD3
5.05	337	2700	14.9	270	280	2	-	10	M1-6		
5.82	292	2830	13.5	280	290	2	-	10	M1-6		
6.41	265	2960	12.8	270	280	2	-	9	M1-6		
7.53	226	3100	11.4	300	290	2	-	9	M1-6		
7.97	213	3140	11.0	320	290	2	-	9	M2		
9.06	188	2960	9.1	510	320	2	-	9	-		
9.35	182	3270	9.7	610	390	2	-	7	M2		
10.79	158	3450	8.9	630	400	2	-	7	-		
11.88	143	3580	8.4	650	400	2	-	7	-		
13.95	122	3810	7.6	670	400	2	-	7	-		
14.77	115	3850	7.2	700	400	2	-	7	-		
16.79	101	3980	6.6	740	400	2	-	7	-		
18.60	91	3980	5.9	830	410	2	-	7	-		
21.93	78	3980	5.0	900	420	2	-	7	-		
26.97	63	3980	4.2	990	510	3	-	8	-		
30.18	56	3980	3.7	1040	520	3	-	8	-		
35.07	48	3980	3.2	1110	520	3	-	8	-		
37.30	46	3980	3.0	1140	520	3	-	8	-		
43.30	39	3980	2.6	1220	530	3	-	8	-		
48.23	35	3980	2.3	1280	530	3	-	8	-		
57.29	30	3980	2.0	1370	540	3	-	8	-		
80.55	21	3980	1.4	1580	570	3	-	7	-		
89.71	19	3980	1.3	1600	570	3	-	7	-		
106.58	16	3980	1.1	1600	570	3	-	7	-		

Weight [lbs]	Stages		AD1	AD2
	Large	Small		
R57	2	-	47	54
	3	-	49	56

RF57: +8 lbs / RM57: +34 lbs


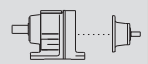
8.2.7 R57R37

R57R37 AD.. , n _e = 1700 rpm										3980 lb-in
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']		
						Lg	Sm			
134	13	3980	0.85	1600	140	2	2	-	-	
142	12	3980	0.82	1600	130	3	2	-	-	
146	12	3980	0.78	1600	110	2	2	-	-	
159	11	3980	0.72	1600	140	2	2	-	-	
164	10	3980	0.71	1600	150	3	2	-	-	
187	9.1	3980	0.62	1600	150	3	2	-	-	
188	9.0	3980	0.61	1600	150	2	2	-	-	
215	7.9	3980	0.54	1600	160	3	2	-	-	
220	7.7	3980	0.52	1600	150	2	2	-	-	
241	7.1	3980	0.48	1600	160	3	2	-	-	
246	6.9	3980	0.46	1600	160	2	2	-	-	
262	6.5	3980	0.44	1600	150	2	2	-	-	
273	6.2	3980	0.42	1600	160	3	2	-	-	
290	5.9	3980	0.39	1600	160	2	2	-	-	
319	5.3	3980	0.36	1600	160	3	2	-	-	
324	5.2	3980	0.35	1600	160	2	2	-	-	
357	4.8	3980	0.32	1600	160	3	2	-	-	
359	4.7	3980	0.32	1600	160	2	2	-	-	
410	4.1	3980	0.28	1600	160	2	3	-	-	
454	3.7	3980	0.26	1600	170	2	3	-	-	
471	3.6	3980	0.25	1600	160	3	2	-	-	
534	3.2	3980	0.22	1600	170	2	3	-	-	
537	3.2	3980	0.22	1600	160	3	2	-	-	
603	2.8	3980	0.19	1600	170	2	3	-	-	
604	2.8	3980	0.19	1600	170	3	2	-	-	
678	2.5	3980	0.17	1600	170	3	2	-	-	
683	2.5	3980	0.17	1600	170	2	3	-	-	
782	2.2	3980	0.15	1600	170	3	2	-	-	
805	2.1	3980	0.14	1600	170	2	3	-	-	
894	1.9	3980	0.13	1600	170	2	3	-	-	
1027	1.7	3980	0.11	1600	170	2	3	-	-	
1034	1.6	3980	0.11	1600	170	3	2	-	-	
1164	1.5	3980	0.10	1600	170	2	3	-	-	
1189	1.4	3980	0.10	1600	170	3	2	-	-	
1342	1.3	3980	0.09	1600	170	2	3	-	-	
1399	1.2	3980	0.08	1600	170	3	2	-	-	
1520	1.1	3980	0.08	1600	170	2	3	-	-	
1555	1.1	3980	0.07	1600	170	3	2	-	-	
1732	0.98	3980	0.07	1600	170	3	2	-	-	
1768	0.96	3980	0.07	1600	170	2	3	-	-	
1967	0.86	3980	0.06	1600	170	3	3	-	-	
1991	0.85	3980	0.06	1600	170	2	3	-	-	
2244	0.76	3980	0.05	1600	170	3	3	-	-	
2309	0.74	3980	0.05	1600	170	2	3	-	-	
2508	0.68	3980	0.05	1600	170	2	3	-	-	
2567	0.66	3980	0.05	1600	170	3	3	-	-	
2907	0.58	3980	0.04	1600	170	3	3	-	-	
2957	0.57	3980	0.04	1600	170	2	3	-	-	
3344	0.51	3980	0.04	1600	170	3	3	-	-	
3873	0.44	3980	0.03	1600	170	3	3	-	-	
4378	0.39	3980	0.03	1600	170	3	3	-	-	
4928	0.34	3980	0.02	1600	170	3	3	-	-	
5585	0.30	3980	0.02	1600	170	3	3	-	-	
6521	0.26	3980	0.02	1600	170	3	3	-	-	
7312	0.23	3980	0.02	1600	170	3	3	-	-	
8480	0.20	3980	0.01	1600	170	3	3	-	-	
9445	0.18	3980	0.01	1600	170	3	3	-	-	
10860	0.16	3980	0.01	1600	170	3	3	-	-	
12095	0.14	3980	0.01	1600	170	3	3	-	-	
14369	0.12	3980	0.01	1600	170	3	3	-	-	

R57R37

AD1

R57R37 AD.. , n_e = 1700 rpm **3980 lb-in**

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']		
						Lg	Sm			
134	13	3980	0.85	1600	380	2	2	-	-	
142	12	3980	0.82	1600	380	3	2	-	-	
146	12	3980	0.78	1600	370	2	2	-	-	
159	11	3980	0.72	1600	380	2	2	-	-	
164	10	3980	0.71	1600	380	3	2	-	-	
187	9.1	3980	0.62	1600	380	3	2	-	-	
188	9.0	3980	0.61	1600	380	2	2	-	-	
215	7.9	3980	0.54	1600	390	3	2	-	-	
220	7.7	3980	0.52	1600	380	2	2	-	-	
241	7.1	3980	0.48	1600	390	3	2	-	-	
246	6.9	3980	0.46	1600	380	2	2	-	-	
262	6.5	3980	0.44	1600	380	2	2	-	-	
273	6.2	3980	0.42	1600	390	3	2	-	-	
290	5.9	3980	0.39	1600	390	2	2	-	-	
319	5.3	3980	0.36	1600	390	3	2	-	-	
324	5.2	3980	0.35	1600	380	2	2	-	-	
357	4.8	3980	0.32	1600	390	3	2	-	-	
359	4.7	3980	0.32	1600	390	2	2	-	-	
410	4.1	3980	0.28	1600	390	2	3	-	-	
454	3.7	3980	0.26	1600	390	2	3	-	-	
471	3.6	3980	0.25	1600	390	3	2	-	-	
534	3.2	3980	0.22	1600	390	2	3	-	-	
537	3.2	3980	0.22	1600	390	3	2	-	-	
603	2.8	3980	0.19	1600	390	2	3	-	-	
604	2.8	3980	0.19	1600	390	3	2	-	-	
678	2.5	3980	0.17	1600	400	3	2	-	-	
683	2.5	3980	0.17	1600	390	2	3	-	-	
782	2.2	3980	0.15	1600	390	3	2	-	-	
805	2.1	3980	0.14	1600	400	2	3	-	-	
894	1.9	3980	0.13	1600	400	2	3	-	-	
1027	1.7	3980	0.11	1600	400	2	3	-	-	
1034	1.6	3980	0.11	1600	400	3	2	-	-	
1164	1.5	3980	0.10	1600	400	2	3	-	-	
1189	1.4	3980	0.10	1600	400	3	2	-	-	
1342	1.3	3980	0.09	1600	400	2	3	-	-	
1399	1.2	3980	0.08	1600	400	3	2	-	-	
1520	1.1	3980	0.08	1600	400	2	3	-	-	
1555	1.1	3980	0.07	1600	400	3	2	-	-	
1732	0.98	3980	0.07	1600	400	3	2	-	-	
1768	0.96	3980	0.07	1600	400	2	3	-	-	
1967	0.86	3980	0.06	1600	400	3	3	-	-	
1991	0.85	3980	0.06	1600	400	2	3	-	-	
2244	0.76	3980	0.05	1600	400	3	3	-	-	
2309	0.74	3980	0.05	1600	400	2	3	-	-	
2508	0.68	3980	0.05	1600	400	2	3	-	-	
2567	0.66	3980	0.05	1600	400	3	3	-	-	
2907	0.58	3980	0.04	1600	400	3	3	-	-	
2957	0.57	3980	0.04	1600	400	2	3	-	-	
3344	0.51	3980	0.04	1600	400	3	3	-	-	
3873	0.44	3980	0.03	1600	400	3	3	-	-	
4378	0.39	3980	0.03	1600	400	3	3	-	-	
4928	0.34	3980	0.02	1600	400	3	3	-	-	
5585	0.30	3980	0.02	1600	400	3	3	-	-	
6521	0.26	3980	0.02	1600	400	3	3	-	-	
7312	0.23	3980	0.02	1600	400	3	3	-	-	
8480	0.20	3980	0.01	1600	400	3	3	-	-	
9445	0.18	3980	0.01	1600	400	3	3	-	-	
10860	0.16	3980	0.01	1600	400	3	3	-	-	
12095	0.14	3980	0.01	1600	400	3	3	-	-	
14369	0.12	3980	0.01	1600	400	3	3	-	-	



R57R37

AD2

Weight [lbs]	Stages		AD1	AD2
	Large	Small		
R57R37	2	2	68	71
	2	3	69	72
	3	2	70	73
	3	3	71	74

RF57: +8 lbs / RM57: +34 lbs



8.2.8 R67

R67 AD.. , $n_e = 1700$ rpm										5310 lb-in		
i [ratio]	n_a [rpm]	T_a max [lb-in]	P_e [HP]	$F_{Ra}^{1)}$ [lb]	F_{Re} [lb]	Stages		ϕ (/R) [']			R67	AD2
						Lg	Sm					
28.83	59	4600	4.5	1890	280	3	-	7	-			
32.27	53	4780	4.2	1850	290	3	-	7	-			
37.50	45	5040	3.8	1780	290	3	-	7	-			
39.88	43	5130	3.6	1750	290	3	-	7	-			
46.29	37	5310	3.2	1700	290	3	-	7	-			
51.56	33	5310	2.9	1700	290	3	-	7	-			
56.89	30	5310	2.6	1700	300	3	-	7	-			
61.26	28	5310	2.4	1700	300	3	-	7	-			
69.75	24	5310	2.1	1700	340	3	-	7	-			
74.17	23	5310	2.0	1700	340	3	-	7	-			
86.11	20	5310	1.7	1700	340	3	-	6	-			
95.91	18	5310	1.6	1700	270	3	-	6	-			
105.83	16	5310	1.4	1700	280	3	-	6	-			
113.94	15	5310	1.3	1700	280	3	-	6	-			
128.97	13	5310	1.2	1700	290	3	-	6	-			
137.67	12	5310	1.1	1700	290	3	-	6	-			
158.14	11	5310	0.95	1700	300	3	-	6	-			
184.07	9.2	5310	0.81	1700	300	3	-	6	-			
199.81	8.5	5310	0.75	1700	310	3	-	6	-			
4.29	396	2390	15.5	1040	280	2	-	10	M1-6			
4.93	345	2570	14.5	1090	270	2	-	9	M1-6			
5.70	298	2740	13.4	1130	270	2	-	9	-			
6.27	271	2920	12.9	1150	260	2	-	9	-			
7.36	231	3270	12.4	1100	220	2	-	8	-			
7.79	218	3360	12.0	1110	220	2	-	8	-			
8.70	195	3890	12.4	1190	340	2	-	7	M2			
10.00	170	4160	11.6	1200	340	2	-	7	-			
11.54	147	4430	10.7	1230	340	2	-	7	-			
12.70	134	4600	10.1	1260	340	2	-	6	-			
14.91	114	4870	9.1	1320	350	2	-	6	-			
15.79	108	4960	8.7	1350	350	2	-	6	-			
17.95	95	5220	8.1	1380	340	2	-	6	-			
19.89	85	5310	7.4	1480	340	2	-	6	-			
23.44	73	4960	5.9	1760	370	2	-	6	-			
28.83	59	4600	4.5	1890	500	3	-	7	-			
32.27	53	4780	4.2	1850	500	3	-	7	-			
37.50	45	5040	3.8	1780	500	3	-	7	-			
39.88	43	5130	3.6	1750	500	3	-	7	-			
46.29	37	5310	3.2	1700	500	3	-	7	-			
51.56	33	5310	2.9	1700	510	3	-	7	-			
61.26	28	5310	2.4	1700	510	3	-	7	-			
69.75	24	5310	2.1	1700	550	3	-	7	-			
74.17	23	5310	2.0	1700	550	3	-	7	-			
86.11	20	5310	1.7	1700	550	3	-	6	-			
95.91	18	5310	1.6	1700	560	3	-	6	-			
113.94	15	5310	1.3	1700	560	3	-	6	-			



Weight [lbs]	Stages		AD2	AD3
	Large	Small		
R67	2	-	62	69
	3	-	64	71

RF67: +7 lbs / RM67: +41 lbs

8.2.9 R67R37

R67R37 AD.. , n _e = 1700 rpm										5310 lb-in		
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']				
						Lg	Sm					
158	11	5310	0.98	1700	130	3	2	-	-			
159	11	5310	0.96	1700	130	2	2	-	-			
176	9.7	5310	0.88	1700	140	3	2	-	-			
181	9.4	5310	0.84	1700	130	2	2	-	-			
200	8.5	5310	0.77	1700	140	3	2	-	-			
201	8.5	5310	0.76	1700	140	2	2	-	-			
234	7.3	5310	0.66	1700	140	3	2	-	-			
235	7.2	5310	0.65	1700	140	2	2	-	-			
261	6.5	5310	0.59	1700	150	3	2	-	-			
264	6.4	5310	0.58	1700	140	2	2	-	-			
294	5.8	5310	0.53	1700	160	3	2	-	-			
310	5.5	5310	0.49	1700	150	2	2	-	-			
344	4.9	5310	0.45	1700	150	3	2	-	-			
359	4.7	5310	0.42	1700	150	2	2	-	-			
384	4.4	5310	0.40	1700	150	2	2	-	-			
388	4.4	5310	0.40	1700	160	3	2	-	-			
438	3.9	5310	0.35	1700	160	3	2	-	-			
443	3.8	5310	0.34	1700	150	2	2	-	-			
486	3.5	5310	0.32	1700	160	2	3	-	-			
495	3.4	5310	0.31	1700	160	3	2	-	-			
571	3.0	5310	0.27	1700	160	2	3	-	-			
574	3.0	5310	0.27	1700	160	3	2	-	-			
644	2.6	5310	0.24	1700	160	2	3	-	-			
646	2.6	5310	0.24	1700	160	3	2	-	-			
730	2.3	5310	0.21	1700	170	2	3	-	-			
750	2.3	5310	0.21	1700	170	3	2	-	-			
836	2.0	5310	0.18	1700	170	3	2	-	-			
891	1.9	5310	0.17	1700	170	2	3	-	-			
956	1.8	5310	0.16	1700	170	2	3	-	-			
1106	1.5	5310	0.14	1700	170	3	2	-	-		R67R37	AD1
1109	1.5	5310	0.14	1700	170	2	3	-	-			
1259	1.4	5310	0.12	1700	170	3	2	-	-			
1379	1.2	5310	0.11	1700	170	2	3	-	-			
1432	1.2	5310	0.11	1700	170	3	2	-	-			
1471	1.2	5310	0.11	1700	170	2	3	-	-			
1629	1.0	5310	0.09	1700	170	2	3	-	-			
1652	1.0	5310	0.09	1700	170	3	2	-	-			
1805	0.94	5310	0.09	1700	170	2	3	-	-			
1852	0.92	5310	0.08	1700	170	3	2	-	-			
2094	0.81	5310	0.07	1700	170	2	3	-	-			
2136	0.80	5310	0.07	1700	170	3	2	-	-			
2403	0.71	5310	0.07	1700	170	3	3	-	-			
2460	0.69	5310	0.06	1700	170	2	3	-	-			
2682	0.63	5310	0.06	1700	170	2	3	-	-			
2745	0.62	5310	0.06	1700	170	3	3	-	-			
3125	0.54	5310	0.05	1700	170	3	3	-	-			
3566	0.48	5310	0.04	1700	170	3	3	-	-			
4136	0.41	5310	0.04	1700	170	3	3	-	-			
4680	0.36	5310	0.03	1700	170	3	3	-	-			
5268	0.32	5310	0.03	1700	170	3	3	-	-			
5970	0.28	5310	0.03	1700	170	3	3	-	-			
6732	0.25	5310	0.02	1700	170	3	3	-	-			
7816	0.22	5310	0.02	1700	170	3	3	-	-			
9066	0.19	5310	0.02	1700	170	3	3	-	-			
10097	0.17	5310	0.02	1700	170	3	3	-	-			
11996	0.14	5310	0.01	1700	170	3	3	-	-			
12931	0.13	5310	0.01	1700	170	3	3	-	-			
15361	0.11	5310	0.01	1700	170	3	3	-	-			


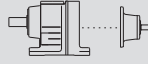
8

R67R37 AD.. , n _e = 1700 rpm										5310 lb-in		
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']			R67R37	AD2
						Lg	Sm					
158	11	5310	0.98	1700	370	3	2	-	-			
159	11	5310	0.96	1700	370	2	2	-	-			
176	9.7	5310	0.88	1700	380	3	2	-	-			
181	9.4	5310	0.84	1700	370	2	2	-	-			
200	8.5	5310	0.77	1700	380	3	2	-	-			
201	8.5	5310	0.76	1700	380	2	2	-	-			
234	7.3	5310	0.66	1700	380	3	2	-	-			
235	7.2	5310	0.65	1700	380	2	2	-	-			
261	6.5	5310	0.59	1700	380	3	2	-	-			
264	6.4	5310	0.58	1700	380	2	2	-	-			
294	5.8	5310	0.53	1700	390	3	2	-	-			
310	5.5	5310	0.49	1700	380	2	2	-	-			
344	4.9	5310	0.45	1700	380	3	2	-	-			
359	4.7	5310	0.42	1700	380	2	2	-	-			
384	4.4	5310	0.40	1700	380	2	2	-	-			
388	4.4	5310	0.40	1700	390	3	2	-	-			
438	3.9	5310	0.35	1700	390	3	2	-	-			
443	3.8	5310	0.34	1700	380	2	2	-	-			
486	3.5	5310	0.32	1700	390	2	3	-	-			
495	3.4	5310	0.31	1700	390	3	2	-	-			
571	3.0	5310	0.27	1700	390	2	3	-	-			
574	3.0	5310	0.27	1700	390	3	2	-	-			
644	2.6	5310	0.24	1700	390	2	3	-	-			
646	2.6	5310	0.24	1700	390	3	2	-	-			
730	2.3	5310	0.21	1700	390	2	3	-	-			
750	2.3	5310	0.21	1700	390	3	2	-	-			
836	2.0	5310	0.18	1700	390	3	2	-	-			
891	1.9	5310	0.17	1700	390	2	3	-	-			
956	1.8	5310	0.16	1700	390	2	3	-	-			
1106	1.5	5310	0.14	1700	390	3	2	-	-			
1109	1.5	5310	0.14	1700	390	2	3	-	-			
1259	1.4	5310	0.12	1700	400	3	2	-	-			
1379	1.2	5310	0.11	1700	400	2	3	-	-			
1432	1.2	5310	0.11	1700	400	3	2	-	-			
1471	1.2	5310	0.11	1700	400	2	3	-	-			
1629	1.0	5310	0.09	1700	400	2	3	-	-			
1652	1.0	5310	0.09	1700	400	3	2	-	-			
1805	0.94	5310	0.09	1700	400	2	3	-	-			
1852	0.92	5310	0.08	1700	400	3	2	-	-			
2094	0.81	5310	0.07	1700	400	2	3	-	-			
2136	0.80	5310	0.07	1700	400	3	2	-	-			
2403	0.71	5310	0.07	1700	400	3	3	-	-			
2460	0.69	5310	0.06	1700	400	2	3	-	-			
2682	0.63	5310	0.06	1700	400	2	3	-	-			
2745	0.62	5310	0.06	1700	400	3	3	-	-			
3125	0.54	5310	0.05	1700	400	3	3	-	-			
3566	0.48	5310	0.04	1700	400	3	3	-	-			
4136	0.41	5310	0.04	1700	400	3	3	-	-			
4680	0.36	5310	0.03	1700	400	3	3	-	-			
5268	0.32	5310	0.03	1700	400	3	3	-	-			
5970	0.28	5310	0.03	1700	400	3	3	-	-			
6732	0.25	5310	0.02	1700	400	3	3	-	-			
7816	0.22	5310	0.02	1700	400	3	3	-	-			
9066	0.19	5310	0.02	1700	400	3	3	-	-			
10097	0.17	5310	0.02	1700	400	3	3	-	-			
11996	0.14	5310	0.01	1700	400	3	3	-	-			
12931	0.13	5310	0.01	1700	400	3	3	-	-			
15361	0.11	5310	0.01	1700	400	3	3	-	-			



Weight [lbs]	Stages		AD1	AD2
	Large	Small		
R67R37	2	2	83	85
	2	3	84	86
	3	2	85	87
	3	3	86	88

RF67: +7 lbs / RM67: +41 lbs

8.2.10 R77



R77 AD.. , n _e = 1700 rpm										7260 lb-in		
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [°]				
						Lg	Sm					
25.23	67	6900	7.7	1950	250	3	-	7	-			
29.00	59	7260	7.1	2030	250	3	-	7	-			
33.47	51	7260	6.1	2230	260	3	-	7	-			
36.83	46	7260	5.6	2230	260	3	-	7	-			
43.26	39	7260	4.7	2230	270	3	-	7	-			
45.81	37	7260	4.5	2230	280	3	-	7	-			
52.07	33	7260	3.9	2230	280	3	-	7	-			
57.68	29	7260	3.6	2230	280	3	-	7	-			
65.77	26	7260	3.1	2230	320	3	-	7	-			
77.24	22	7260	2.7	2230	330	3	-	7	-			
81.80	21	7260	2.5	2230	330	3	-	6	-			
92.97	18	7260	2.2	2230	330	3	-	6	-			
102.99	17	7260	2.0	2230	340	3	-	6	-			
121.42	14	7260	1.7	2230	340	3	-	6	-			
138.39	12	7260	1.5	2230	250	3	-	6	-			
145.67	12	7260	1.4	2230	250	3	-	6	-			
166.59	10	7260	1.2	2230	250	3	-	6	-			
195.24	8.7	7260	1.0	2230	260	3	-	6	-			
9.64	176	5580	16.1	1190	310	2	-	7	M1-6			
10.88	156	5840	14.9	1220	310	2	-	7	M2			
12.33	138	6110	13.8	1270	310	2	-	6	-			
14.05	121	6370	12.6	1330	320	2	-	6	-			
15.60	109	6550	11.7	1390	320	2	-	6	-			
17.82	95	6900	10.8	1430	320	2	-	6	-			
18.80	90	6900	10.2	1510	320	2	-	6	-			
21.43	79	7260	9.4	1560	320	2	-	6	-			
23.37	73	7260	8.6	1690	320	2	-	6	-			
25.23	67	6900	7.7	1950	460	3	-	7	-			
29.00	59	7260	7.1	2030	470	3	-	7	-			
33.47	51	7260	6.1	2230	470	3	-	7	-			
36.83	46	7260	5.6	2230	480	3	-	7	-			
43.26	39	7260	4.7	2230	490	3	-	7	-			
45.81	37	7260	4.5	2230	490	3	-	7	-			
52.07	33	7260	3.9	2230	490	3	-	7	-			
57.68	29	7260	3.6	2230	500	3	-	7	-			
65.77	26	7260	3.1	2230	540	3	-	7	-			
77.24	22	7260	2.7	2230	540	3	-	7	-			
81.80	21	7260	2.5	2230	540	3	-	6	-			
92.97	18	7260	2.2	2230	550	3	-	6	-			
102.99	17	7260	2.0	2230	550	3	-	6	-			
121.42	14	7260	1.7	2230	550	3	-	6	-			

R77 AD.. , n_e = 1700 rpm 7260 lb-in



i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']		
						Lg	Sm			
5.31	320	4510	24	710	600	2	-	8	M1-6	R77 AD4
5.99	284	4780	22	700	600	2	-	8	M1-6	
6.79	250	5130	21	660	590	2	-	8	M1-6	
7.74	220	5400	19.4	680	590	2	-	8	M1-6	
8.59	198	5580	18.1	710	600	2	-	7	M1-6	
9.64	176	5580	16.1	1190	730	2	-	7	M1-6	
10.88	156	5840	14.9	1220	730	2	-	7	M2	
12.33	138	6110	13.8	1270	730	2	-	6	-	
14.05	121	6370	12.6	1330	730	2	-	6	-	
15.60	109	6550	11.7	1390	740	2	-	6	-	
17.82	95	6900	10.8	1430	730	2	-	6	-	
18.80	90	6900	10.2	1510	740	2	-	6	-	
25.23	67	6900	7.7	1950	860	3	-	7	-	
29.00	59	7260	7.1	2030	860	3	-	7	-	
33.47	51	7260	6.1	2230	870	3	-	7	-	
36.83	46	7260	5.6	2230	870	3	-	7	-	
43.26	39	7260	4.7	2230	880	3	-	7	-	
45.81	37	7260	4.5	2230	880	3	-	7	-	
65.77	26	7260	3.1	2230	920	3	-	7	-	
77.24	22	7260	2.7	2230	930	3	-	7	-	
81.80	21	7260	2.5	2230	930	3	-	6	-	

Weight [lbs]	Stages		AD2	AD3	AD4
	Large	Small			
R77	2	-	74	82	95
	3	-	77	85	98
RF77: +13 lbs / RM77: +68 lbs					



8.2.11 R77R37

R77R37 AD.. , n _e = 1700 rpm										7260 lb-in	
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm				
149	11	7260	1.4	2230	80	3	2	-	-		
169	10	7260	1.2	2230	80	3	2	-	-		
186	9.1	7260	1.1	2230	120	2	2	-	-		
197	8.6	7260	1.1	2230	120	3	2	-	-		
221	7.7	7260	0.94	2230	120	2	2	-	-		
224	7.6	7260	0.94	2230	130	3	2	-	-		
236	7.2	7260	0.88	2230	120	2	2	-	-		
260	6.5	7260	0.81	2230	120	3	2	-	-		
276	6.2	7260	0.75	2230	130	2	2	-	-		
289	5.9	7260	0.73	2230	120	3	2	-	-		
310	5.5	7260	0.67	2230	130	2	2	-	-		
327	5.2	7260	0.65	2230	140	3	2	-	-		
365	4.7	7260	0.57	2230	140	2	2	-	-		
373	4.6	7260	0.57	2230	140	3	2	-	-		
422	4.0	7260	0.49	2230	140	2	2	-	-		
436	3.9	7260	0.48	2230	160	3	2	-	-		
451	3.8	7260	0.46	2230	140	2	2	-	-		
488	3.5	7260	0.43	2230	160	3	2	-	-		
520	3.3	7260	0.40	2230	140	2	2	-	-		
560	3.0	7260	0.38	2230	150	3	2	-	-		
571	3.0	7260	0.37	2230	160	2	3	-	-		
646	2.6	7260	0.33	2230	160	3	2	-	-		
671	2.5	7260	0.31	2230	160	2	3	-	-		
731	2.3	7260	0.29	2230	160	3	2	-	-		
757	2.2	7260	0.28	2230	160	2	3	-	-		
821	2.1	7260	0.26	2230	170	3	2	-	-		
858	2.0	7260	0.25	2230	160	2	3	-	-		
915	1.9	7260	0.23	2230	160	2	3	-	-		
940	1.8	7260	0.22	2230	160	3	2	-	-	R77R37	AD1
1047	1.6	7260	0.20	2230	160	2	3	-	-		
1084	1.6	7260	0.19	2230	170	3	2	-	-		
1124	1.5	7260	0.19	2230	160	2	3	-	-		
1218	1.4	7260	0.17	2230	170	3	2	-	-		
1303	1.3	7260	0.16	2230	170	2	3	-	-		
1394	1.2	7260	0.15	2230	170	3	2	-	-		
1430	1.2	7260	0.15	2230	170	2	3	-	-		
1580	1.1	7260	0.13	2230	170	3	2	-	-		
1620	1.0	7260	0.13	2230	170	2	3	-	-		
1728	0.98	7260	0.12	2230	170	2	3	-	-		
1822	0.93	7260	0.12	2230	170	3	2	-	-		
1977	0.86	7260	0.11	2230	170	2	3	-	-		
2070	0.82	7260	0.10	2230	170	3	2	-	-		
2121	0.80	7260	0.10	2230	170	2	3	-	-		
2345	0.72	7260	0.09	2230	170	3	2	-	-		
2460	0.69	7260	0.09	2230	170	2	3	-	-		
2671	0.64	7260	0.08	2230	170	3	3	-	-		
2890	0.59	7260	0.07	2230	170	2	3	-	-		
3053	0.56	7260	0.07	2230	170	3	3	-	-		
3151	0.54	7260	0.07	2230	170	2	3	-	-		
3488	0.49	7260	0.06	2230	170	3	3	-	-		
3999	0.43	7260	0.05	2230	170	3	3	-	-		
4470	0.38	7260	0.05	2230	170	3	3	-	-		
5184	0.33	7260	0.04	2230	170	3	3	-	-		
5838	0.29	7260	0.04	2230	170	3	3	-	-		
6770	0.25	7260	0.03	2230	170	3	3	-	-		
7617	0.22	7260	0.03	2230	170	3	3	-	-		
8714	0.20	7260	0.02	2230	170	3	3	-	-		

8

R77R37 AD.. , n _e = 1700 rpm										7260 lb-in	
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm				
9788	0.17	7260	0.02	2230	170	3	3	-	-	R77R37	AD1
11021	0.15	7260	0.02	2230	170	3	3	-	-		
12783	0.13	7260	0.02	2230	170	3	3	-	-		
13885	0.12	7260	0.02	2230	170	3	3	-	-		
15015	0.11	7260	0.01	2230	170	3	3	-	-		
16370	0.10	7260	0.01	2230	170	3	3	-	-		
149	11	7260	1.4	2230	330	3	2	-	-	R77R37	AD2
169	10	7260	1.2	2230	330	3	2	-	-		
186	9.1	7260	1.1	2230	370	2	2	-	-		
197	8.6	7260	1.1	2230	370	3	2	-	-		
221	7.7	7260	0.94	2230	370	2	2	-	-		
224	7.6	7260	0.94	2230	380	3	2	-	-		
236	7.2	7260	0.88	2230	370	2	2	-	-		
260	6.5	7260	0.81	2230	370	3	2	-	-		
276	6.2	7260	0.75	2230	380	2	2	-	-		
289	5.9	7260	0.73	2230	370	3	2	-	-		
310	5.5	7260	0.67	2230	380	2	2	-	-		
327	5.2	7260	0.65	2230	380	3	2	-	-		
365	4.7	7260	0.57	2230	380	2	2	-	-		
373	4.6	7260	0.57	2230	380	3	2	-	-		
422	4.0	7260	0.49	2230	380	2	2	-	-		
436	3.9	7260	0.48	2230	380	3	2	-	-		
451	3.8	7260	0.46	2230	380	2	2	-	-		
488	3.5	7260	0.43	2230	390	3	2	-	-		
520	3.3	7260	0.40	2230	380	2	2	-	-		
560	3.0	7260	0.38	2230	380	3	2	-	-		
571	3.0	7260	0.37	2230	390	2	3	-	-		
646	2.6	7260	0.33	2230	390	3	2	-	-		
671	2.5	7260	0.31	2230	390	2	3	-	-		
731	2.3	7260	0.29	2230	390	3	2	-	-		
757	2.2	7260	0.28	2230	390	2	3	-	-		
821	2.1	7260	0.26	2230	390	3	2	-	-		
858	2.0	7260	0.25	2230	390	2	3	-	-		
915	1.9	7260	0.23	2230	390	2	3	-	-		
940	1.8	7260	0.22	2230	390	3	2	-	-		
1047	1.6	7260	0.20	2230	390	2	3	-	-		
1084	1.6	7260	0.19	2230	390	3	2	-	-		
1124	1.5	7260	0.19	2230	390	2	3	-	-		
1218	1.4	7260	0.17	2230	400	3	2	-	-		
1303	1.3	7260	0.16	2230	390	2	3	-	-		
1394	1.2	7260	0.15	2230	390	3	2	-	-		
1430	1.2	7260	0.15	2230	400	2	3	-	-		
1580	1.1	7260	0.13	2230	390	3	2	-	-		
1620	1.0	7260	0.13	2230	400	2	3	-	-		
1728	0.98	7260	0.12	2230	400	2	3	-	-		
1822	0.93	7260	0.12	2230	400	3	2	-	-		
1977	0.86	7260	0.11	2230	400	2	3	-	-		
2070	0.82	7260	0.10	2230	400	3	2	-	-		
2121	0.80	7260	0.10	2230	400	2	3	-	-		
2345	0.72	7260	0.09	2230	400	3	2	-	-		
2460	0.69	7260	0.09	2230	400	2	3	-	-		
2671	0.64	7260	0.08	2230	400	3	3	-	-		
2890	0.59	7260	0.07	2230	400	2	3	-	-		
3053	0.56	7260	0.07	2230	400	3	3	-	-		
3151	0.54	7260	0.07	2230	400	2	3	-	-		
3488	0.49	7260	0.06	2230	400	3	3	-	-		
3999	0.43	7260	0.05	2230	400	3	3	-	-		
4470	0.38	7260	0.05	2230	400	3	3	-	-		

R77R37 AD.. , n_e = 1700 rpm 7260 lb-in


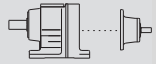
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']		
						Lg	Sm			
5184	0.33	7260	0.04	2230	400	3	3	-	-	R77R37 AD2
5838	0.29	7260	0.04	2230	400	3	3	-	-	
6770	0.25	7260	0.03	2230	400	3	3	-	-	
7617	0.22	7260	0.03	2230	400	3	3	-	-	
8714	0.20	7260	0.02	2230	400	3	3	-	-	
9788	0.17	7260	0.02	2230	400	3	3	-	-	
11021	0.15	7260	0.02	2230	400	3	3	-	-	
12783	0.13	7260	0.02	2230	400	3	3	-	-	
13885	0.12	7260	0.02	2230	400	3	3	-	-	
15015	0.11	7260	0.01	2230	400	3	3	-	-	
16370	0.10	7260	0.01	2230	400	3	3	-	-	

Weight [lbs]	Stages		AD1	AD2
	Large	Small		
R77R37	2	2	94	97
	2	3	95	97
	3	2	97	99
	3	3	97	100

RF77: +13 lbs / RM77: +68 lbs



8.2.12 R87

R87 AD.. , n_e = 1700 rpm 13720 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']		
						Lg	Sm			
47.58	36	13720	8.1	2280	210	3	-	7	-	R87 AD2
52.82	32	13720	7.3	2540	220	3	-	6	-	
60.35	28	13720	6.4	2880	220	3	-	6	-	
63.68	27	13720	6.1	3020	230	3	-	6	-	
72.57	23	13720	5.3	3380	230	3	-	6	-	
81.92	21	13720	4.7	3730	300	3	-	6	-	
93.38	18	13720	4.1	3810	300	3	-	6	-	
103.65	16	13720	3.7	3810	310	3	-	6	-	
118.43	14	13720	3.3	3810	310	3	-	6	-	
124.97	14	13720	3.1	3810	310	3	-	6	-	
142.41	12	13720	2.7	3810	320	3	-	6	-	
155.34	11	13720	2.5	3810	320	3	-	6	-	
181.77	9.4	13720	2.1	3810	320	3	-	6	-	
205.71	8.3	13720	1.9	3810	330	3	-	6	-	
216.54	7.9	13720	1.8	3810	330	3	-	6	-	
246.54	6.9	13720	1.6	3810	330	3	-	6	-	
27.84	61	12390	12.4	3190	210	2	-	6	-	R87 AD3
27.88	61	13280	13.4	3130	370	3	-	7	-	
31.40	54	11330	10.0	2210	280	2	-	5	-	
32.66	52	13720	11.9	3320	380	3	-	7	-	
34.40	49	12040	9.7	2150	260	2	-	5	-	
36.84	46	13720	10.5	3490	390	3	-	7	-	
41.74	41	13720	9.3	3680	400	3	-	7	-	
47.58	36	13720	8.1	3810	410	3	-	7	-	
52.82	32	13720	7.3	2540	420	3	-	6	-	
60.35	28	13720	6.4	2880	420	3	-	6	-	
63.68	27	13720	6.1	3020	430	3	-	6	-	
72.57	23	13720	5.3	3380	430	3	-	6	-	
81.92	21	13720	4.7	3730	490	3	-	6	-	
93.38	18	13720	4.1	3810	490	3	-	6	-	

R87 AD.. , n_e = 1700 rpm



13720 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']			R87	AD3
						Lg	Sm					
103.65	16	13720	3.7	3810	500	3	-	6	-			
118.43	14	13720	3.3	3810	500	3	-	6	-			
124.97	14	13720	3.1	3810	500	3	-	6	-			
142.41	12	13720	2.7	3810	510	3	-	6	-			
155.34	11	13720	2.5	3810	510	3	-	6	-			
181.77	9.4	13720	2.1	3810	510	3	-	6	-			
5.30	321	7430	39	1900	440	2	-	7	M1-6			
6.39	266	8230	36	2000	420	2	-	7	M1-6			
7.13	238	8760	34	2070	400	2	-	7	M1-6			
8.22	207	9380	32	2160	380	2	-	7	M1-6			
9.14	186	9820	30	2230	360	2	-	6	M1-6			
9.90	172	10440	29	2160	610	2	-	6	M1-6			
11.93	142	10890	25	2310	630	2	-	6	M1-6			
13.33	128	11330	24	2390	630	2	-	6	M2			
15.35	111	11860	21	2510	640	2	-	6	-			
17.08	100	12300	20	2600	640	2	-	6	-			
19.10	89	12740	18.5	2700	640	2	-	6	-			
21.51	79	13280	17.2	2810	640	2	-	6	-			
23.40	73	13720	16.3	2880	640	2	-	6	-			
27.84	61	13720	13.7	3110	650	2	-	6	-		R87	AD4
27.88	61	13280	13.4	3130	790	3	-	7	-			
32.66	52	13720	11.9	3320	800	3	-	7	-			
36.84	46	13720	10.5	3490	810	3	-	7	-			
41.74	41	13720	9.3	3680	810	3	-	7	-			
47.58	36	13720	8.1	3810	820	3	-	7	-			
52.82	32	13720	7.3	2540	830	3	-	6	-			
60.35	28	13720	6.4	2880	840	3	-	6	-			
63.68	27	13720	6.1	3020	840	3	-	6	-			
81.92	21	13720	4.7	3730	900	3	-	6	-			
93.38	18	13720	4.1	3810	900	3	-	6	-			
103.65	16	13720	3.7	3810	910	3	-	6	-			
118.43	14	13720	3.3	3810	910	3	-	6	-			
124.97	14	13720	3.1	3810	910	3	-	6	-			
5.30	321	8050	42	1870	1130	2	-	7	M1-6			
6.39	266	9030	39	1960	1110	2	-	7	M1-6			
7.13	238	9470	37	2030	1110	2	-	7	M1-6			
8.22	207	10270	35	2110	1100	2	-	7	M1-6			
9.14	186	10710	33	2190	1090	2	-	6	M1-6			
9.90	172	10440	29	2160	1290	2	-	6	M1-6			
11.93	142	10890	25	2310	1300	2	-	6	M1-6			
13.33	128	11330	24	2390	1300	2	-	6	M2			
15.35	111	11860	21	2510	1310	2	-	6	-			
17.08	100	12300	20	2600	1310	2	-	6	-		R87	AD5
19.10	89	12740	18.5	2700	1310	2	-	6	-			
21.51	79	13280	17.2	2810	1300	2	-	6	-			
27.88	61	13280	13.4	3130	1460	3	-	7	M2			
32.66	52	13720	11.9	3320	1460	3	-	7	-			
36.84	46	13720	10.5	3490	1470	3	-	7	-			
41.74	41	13720	9.3	3680	1480	3	-	7	-			
47.58	36	13720	8.1	3810	1490	3	-	7	-			
81.92	21	13720	4.7	3730	1560	3	-	6	-			
93.38	18	13720	4.1	3810	1570	3	-	6	-			

Weight [lbs]	Stages		AD2	AD3	AD4	AD5
	Large	Small				
R87	2	-	132	141	154	187
	3	-	135	144	157	190

RF87: +15 lbs / RM87: +80 lbs

8.2.13 R87R57

R87R57 AD.. , n _e = 1700 rpm										13720 lb-in	
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm				
195	8.7	13720	2.0	3810	340	2	2	-	-		
209	8.1	13720	1.9	3810	360	3	2	-	-		
232	7.3	13720	1.7	3810	360	2	2	-	-		
236	7.2	13720	1.7	3810	360	3	2	-	-		
256	6.6	13720	1.5	3810	340	2	2	-	-		
268	6.3	13720	1.5	3810	340	3	2	-	-		
300	5.7	13720	1.3	3810	350	2	2	-	-		
305	5.6	13720	1.3	3810	370	3	2	-	-		
352	4.8	13720	1.1	3810	370	3	2	-	-		
361	4.7	13720	1.1	3810	360	2	2	-	-		
398	4.3	13720	1.0	3810	380	3	2	-	-		
400	4.3	13720	0.98	3810	360	2	2	-	-		
456	3.7	13720	0.88	3810	380	3	2	-	-		
472	3.6	13720	0.83	3810	370	2	2	-	-		
525	3.2	13720	0.76	3810	380	3	2	-	-		
538	3.2	13720	0.73	3810	370	2	2	-	-		
580	2.9	13720	0.69	3810	380	2	3	-	-		
599	2.8	13720	0.67	3810	380	3	2	-	-		
649	2.6	13720	0.61	3810	380	2	3	-	-		
685	2.5	13720	0.58	3810	380	3	2	-	-		
754	2.3	13720	0.53	3810	390	2	3	-	-		
776	2.2	13720	0.51	3810	380	3	2	-	-		
802	2.1	13720	0.50	3810	390	2	3	-	-		
881	1.9	13720	0.46	3810	390	3	3	-	-		
885	1.9	13720	0.45	3810	390	3	2	-	-		
931	1.8	13720	0.43	3810	390	2	3	-	-		
994	1.7	13720	0.41	3810	390	3	3	-	-		
1008	1.7	13720	0.40	3810	390	3	2	-	-		
1037	1.6	13720	0.38	3810	390	2	3	-	-		
1143	1.5	13720	0.35	3810	390	3	2	-	-		
1145	1.5	13720	0.35	3810	390	2	3	-	-		
1232	1.4	13720	0.32	3810	390	2	3	-	-		
1303	1.3	13720	0.31	3810	390	3	2	-	-		
1395	1.2	13720	0.29	3810	390	2	3	-	-		
1489	1.1	13720	0.27	3810	390	2	3	-	-		
1524	1.1	13720	0.26	3810	390	3	2	-	-		
1733	0.98	13720	0.23	3810	390	2	3	-	-		
1737	0.98	13720	0.23	3810	390	3	2	-	-		
1930	0.88	13720	0.21	3810	390	2	3	-	-		
1961	0.87	13720	0.21	3810	390	3	3	-	-		
2129	0.80	13720	0.19	3810	390	2	3	-	-		
2209	0.77	13720	0.18	3810	400	3	3	-	-		
2518	0.68	13720	0.16	3810	400	3	3	-	-		
2595	0.66	13720	0.15	3810	390	2	3	-	-		
2770	0.61	13720	0.14	3810	390	2	3	-	-		
2873	0.59	13720	0.14	3810	400	3	3	-	-		
3182	0.53	13720	0.13	3810	390	2	3	-	-		
3233	0.53	13720	0.13	3810	400	3	3	-	-		
3703	0.46	13720	0.11	3810	390	2	3	-	-		
3744	0.45	13720	0.11	3810	400	3	3	-	-		
4020	0.42	13720	0.10	3810	390	2	3	-	-		
4206	0.40	13720	0.10	3810	400	3	3	-	-		
4831	0.35	13720	0.08	3810	400	3	3	-	-		
5449	0.31	13720	0.07	3810	400	3	3	-	-		
6174	0.28	13720	0.07	3810	400	3	3	-	-		
7038	0.24	13720	0.06	3810	400	3	3	-	-		



R87R57

AD2

8

R87R57 AD.. , n_e = 1700 rpm



13720 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']		
						Lg	Sm			
8109	0.21	13720	0.05	3810	400	3	3	-	-	R87R57
9244	0.18	13720	0.04	3810	400	3	3	-	-	
10549	0.16	13720	0.04	3810	400	3	3	-	-	
12025	0.14	13720	0.03	3810	400	3	3	-	-	
13813	0.12	13720	0.03	3810	400	3	3	-	-	
15310	0.11	13720	0.03	3810	400	3	3	-	-	
17452	0.10	13720	0.02	3810	400	3	3	-	-	AD2
195	8.7	13720	2.0	3810	550	2	2	-	-	R87R57
209	8.1	13720	1.9	3810	570	3	2	-	-	
232	7.3	13720	1.7	3810	570	2	2	-	-	
236	7.2	13720	1.7	3810	570	3	2	-	-	
256	6.6	13720	1.5	3810	570	2	2	-	-	
268	6.3	13720	1.5	3810	570	3	2	-	-	
300	5.7	13720	1.3	3810	580	2	2	-	-	
305	5.6	13720	1.3	3810	580	3	2	-	-	
352	4.8	13720	1.1	3810	590	3	2	-	-	
361	4.7	13720	1.1	3810	580	2	2	-	-	
398	4.3	13720	1.0	3810	590	3	2	-	-	
400	4.3	13720	0.98	3810	580	2	2	-	-	
456	3.7	13720	0.88	3810	590	3	2	-	-	
472	3.6	13720	0.83	3810	580	2	2	-	-	
525	3.2	13720	0.76	3810	590	3	2	-	-	
580	2.9	13720	0.69	3810	600	2	3	-	-	
599	2.8	13720	0.67	3810	600	3	2	-	-	
649	2.6	13720	0.61	3810	600	2	3	-	-	
685	2.5	13720	0.58	3810	590	3	2	-	-	
754	2.3	13720	0.53	3810	600	2	3	-	-	
776	2.2	13720	0.51	3810	590	3	2	-	-	
802	2.1	13720	0.50	3810	600	2	3	-	-	
881	1.9	13720	0.46	3810	600	3	3	-	-	
885	1.9	13720	0.45	3810	600	3	2	-	-	
931	1.8	13720	0.43	3810	600	2	3	-	-	
994	1.7	13720	0.41	3810	600	3	3	-	-	
1008	1.7	13720	0.40	3810	600	3	2	-	-	
1037	1.6	13720	0.38	3810	600	2	3	-	-	
1143	1.5	13720	0.35	3810	600	3	2	-	-	
1232	1.4	13720	0.32	3810	600	2	3	-	-	
1303	1.3	13720	0.31	3810	600	3	2	-	-	
1524	1.1	13720	0.26	3810	600	3	2	-	-	
1733	0.98	13720	0.23	3810	600	2	3	-	-	
1737	0.98	13720	0.23	3810	600	3	2	-	-	
1930	0.88	13720	0.21	3810	610	2	3	-	-	
2209	0.77	13720	0.18	3810	610	3	3	-	-	
2518	0.68	13720	0.16	3810	610	3	3	-	-	
2873	0.59	13720	0.14	3810	610	3	3	-	-	
3744	0.45	13720	0.11	3810	610	3	3	-	-	AD3

Weight [lbs]	Stages		AD2	AD3
	Large	Small		
R87R57	2	2	183	190
	2	3	185	192
	3	2	186	193
	3	3	188	195

RF87: +15 lbs / RM87: +80 lbs

8.2.14 R97

R97 AD.. , n _e = 1700 rpm										26550 lb-in	
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (R) [']			
						Lg	Sm				
53.21	32	26550	14.1	4450	290	3	-	6	-		
59.92	28	26550	12.5	4450	300	3	-	6	-		
65.21	26	26550	11.5	4450	310	3	-	6	-		
72.17	24	26550	10.4	3300	410	3	-	6	-		
83.15	20	26550	9.0	3850	420	3	-	6	-		
92.48	18	26550	8.1	4270	430	3	-	6	-		
103.44	16	26550	7.2	4450	430	3	-	6	-		
116.48	15	26550	6.4	4450	440	3	-	6	-		
126.75	13	26550	5.9	4450	440	3	-	6	-		
150.78	11	26550	5.0	4450	450	3	-	6	-		
170.02	10	26550	4.4	4450	450	3	-	6	-		
186.30	9.1	26550	4.0	4450	450	3	-	6	-		
216.28	7.9	26550	3.5	4450	460	3	-	6	-		
25.03	68	23190	26	3360	320	2	-	5	-		
27.19	63	21510	22	1680	440	2	-	5	-		
27.58	62	23630	24	3490	670	3	-	6	M1-6		
32.05	53	22660	19.7	1800	410	2	-	5	-		
33.25	51	25580	22	3690	680	3	-	6	M2		
37.13	46	26550	20	3830	680	3	-	6	M2		
42.78	40	26550	17.5	4080	700	3	-	6	-		
47.58	36	26550	15.7	4280	710	3	-	6	-		
53.21	32	26550	14.1	4450	720	3	-	6	-		
59.92	28	26550	12.5	4450	730	3	-	6	-		
65.21	26	26550	11.5	4450	740	3	-	6	-		
72.17	24	26550	10.4	3300	830	3	-	6	-		
83.15	20	26550	9.0	3850	840	3	-	6	-		
92.48	18	26550	8.1	4270	840	3	-	6	-		
103.44	16	26550	7.2	4450	850	3	-	6	-		
116.48	15	26550	6.4	4450	850	3	-	6	-		
126.75	13	26550	5.9	4450	860	3	-	6	-		
150.78	11	26550	5.0	4450	860	3	-	6	-		
4.50	378	12210	75	2060	910	2	-	6	M1-6		
5.20	327	14070	75	2100	860	2	-	6	M1-6		
6.21	274	16730	75	2160	690	2	-	6	M1-6		
7.12	239	17700	69	2250	660	2	-	6	M1-6		
8.39	203	17970	60	2410	750	2	-	6	M1-6		
9.29	183	17970	54	2520	800	2	-	6	M1-6		
10.83	157	18500	47	2490	1100	2	-	6	M1-6		
12.39	137	19380	43	2610	1100	2	-	6	M1-6		
14.62	116	20360	39	2760	1110	2	-	6	M1-6		
16.17	105	21240	37	2850	1100	2	-	6	M1-6		
18.24	93	22130	34	2960	1100	2	-	6	M2		
20.14	84	23100	32	3050	1090	2	-	5	-		
22.37	76	24070	30	3150	1080	2	-	5	-		
25.03	68	25050	28	3270	1080	2	-	5	-		
27.58	62	23630	24	3490	1350	3	-	6	M1-6		
33.25	51	25580	22	3690	1350	3	-	6	M2		
37.13	46	26550	20	3830	1350	3	-	6	M2		
42.78	40	26550	17.5	4080	1370	3	-	6	-		
47.58	36	26550	15.7	4280	1380	3	-	6	-		
53.21	32	26550	14.1	4450	1390	3	-	6	-		
59.92	28	26550	12.5	4450	1400	3	-	6	-		
72.17	24	26550	10.4	3300	1500	3	-	6	-		
83.15	20	26550	9.0	3850	1500	3	-	6	-		
92.48	18	26550	8.1	4270	1510	3	-	6	-		
103.44	16	26550	7.2	4450	1510	3	-	6	-		
116.48	15	26550	6.4	4450	1520	3	-	6	-		

8

8 R / RX - Helical


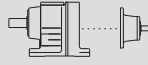
R / RX.. AD

R97 AD.. , n _e = 1700 rpm										26550 lb-in	
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']			
						Lg	Sm			R97	AD6
4.50	378	14430	89	1960	1410	2	-	6	M1-6		
5.20	327	15750	84	2030	1400	2	-	6	M1-6		
6.21	274	16730	75	2160	1410	2	-	6	M1-6		
7.12	239	17700	69	2250	1410	2	-	6	M1-6		
8.39	203	17970	60	2410	1450	2	-	6	M1-6		
9.29	183	17970	54	2520	1470	2	-	6	M1-6		
10.83	157	18500	47	2490	1710	2	-	6	M1-6		
12.39	137	19380	43	2610	1710	2	-	6	M1-6		
14.62	116	20360	39	2760	1720	2	-	6	M1-6		
16.17	105	21240	37	2850	1710	2	-	6	M1-6		
18.24	93	22130	34	2960	1710	2	-	6	M2		
20.14	84	23100	32	3050	1700	2	-	5	-		
27.58	62	23630	24	3490	1940	3	-	6	M1-6		
33.25	51	25580	22	3690	1940	3	-	6	M2		
37.13	46	26550	20	3830	1940	3	-	6	-		
42.78	40	26550	17.5	4080	1960	3	-	6	-		
47.58	36	26550	15.7	4280	1970	3	-	6	-		
72.17	24	26550	10.4	3300	2080	3	-	6	-		
83.15	20	26550	9.0	3850	2090	3	-	6	-		
92.48	18	26550	8.1	4270	2090	3	-	6	-		

Weight [lbs]	Stages		AD3	AD4	AD5	AD6
	Large	Small				
R97	2	-	229	240	277	307
	3	-	235	247	284	313



RF97: +40 lbs / RM97: +50 lbs

8.2.15 R97R57

R97R57 AD.. , n _e = 1700 rpm										26550 lb-in	
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm				
209	8.1	26550	3.7	4450	320	3	2	-	-		
227	7.5	26550	3.4	4450	290	2	2	-	-		
234	7.3	26550	3.3	4450	330	3	2	-	-		
249	6.8	26550	3.1	4450	320	3	2	-	-		
270	6.3	26550	2.8	4450	330	2	2	-	-		
296	5.7	26550	2.6	4450	320	3	2	-	-		
297	5.7	26550	2.6	4450	330	2	2	-	-		
336	5.1	26550	2.3	4450	330	3	2	-	-		
349	4.9	26550	2.2	4450	340	2	2	-	-		
370	4.6	26550	2.1	4450	340	2	2	-	-		
379	4.5	26550	2.0	4450	340	3	2	-	-		
420	4.0	26550	1.8	4450	340	2	2	-	-		
431	3.9	26550	1.8	4450	340	3	2	-	-		
466	3.6	26550	1.6	4450	340	2	2	-	-		
484	3.5	26550	1.6	4450	360	3	2	-	-		
549	3.1	26550	1.4	4450	280	2	2	-	-		
560	3.0	26550	1.4	4450	370	3	2	-	-		
625	2.7	26550	1.2	4450	290	2	2	-	-		
632	2.7	26550	1.2	4450	350	3	2	-	-		
737	2.3	26550	1.0	4450	370	3	2	-	-		
755	2.3	26550	1.0	4450	370	2	3	-	-		
824	2.1	26550	0.94	4450	370	3	2	-	-		
878	1.9	26550	0.88	4450	380	2	3	-	-		
934	1.8	26550	0.83	4450	380	2	3	-	-		
938	1.8	26550	0.82	4450	370	3	2	-	-		
1069	1.6	26550	0.72	4450	370	3	2	-	-		
1084	1.6	26550	0.71	4450	380	2	3	-	-		
1207	1.4	26550	0.64	4450	380	2	3	-	-		
1228	1.4	26550	0.63	4450	380	3	2	-	-	R97R57	AD2
1396	1.2	26550	0.55	4450	380	3	2	-	-		
1434	1.2	26550	0.54	4450	380	2	3	-	-		
1583	1.1	26550	0.49	4450	380	3	2	-	-		
1623	1.0	26550	0.48	4450	380	2	3	-	-		
1733	0.98	26550	0.45	4450	380	2	3	-	-		
1823	0.93	26550	0.42	4450	380	3	2	-	-		
2016	0.84	26550	0.38	4450	390	2	3	-	-		
2078	0.82	26550	0.37	4450	390	3	2	-	-		
2245	0.76	26550	0.34	4450	390	2	3	-	-		
2311	0.74	26550	0.33	4450	390	3	2	-	-		
2668	0.64	26550	0.29	4450	390	2	3	-	-		
2722	0.62	26550	0.28	4450	390	3	2	-	-		
3019	0.56	26550	0.26	4450	390	2	3	-	-		
3065	0.55	26550	0.25	4450	390	3	2	-	-		
3481	0.49	26550	0.23	4450	390	3	3	-	-		
3702	0.46	26550	0.21	4450	390	2	3	-	-		
4004	0.42	26550	0.20	4450	390	3	3	-	-		
4309	0.39	26550	0.18	4450	390	2	3	-	-		
4559	0.37	26550	0.17	4450	390	3	3	-	-		
4678	0.36	26550	0.17	4450	390	2	3	-	-		
5161	0.33	26550	0.15	4450	390	3	3	-	-		
5931	0.29	26550	0.13	4450	400	3	3	-	-		
6708	0.25	26550	0.12	4450	400	3	3	-	-		
7692	0.22	26550	0.10	4450	400	3	3	-	-		
8706	0.20	26550	0.09	4450	400	3	3	-	-		
10030	0.17	26550	0.08	4450	400	3	3	-	-		
11156	0.15	26550	0.07	4450	400	3	3	-	-		
13320	0.13	26550	0.06	4450	400	3	3	-	-		

8


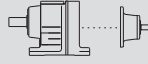
R97R57 AD.. , n_e = 1700 rpm 26550 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']		
						Lg	Sm			
14999	0.11	26550	0.05	4450	400	3	3	-	-	R97R57 AD2
17230	0.10	26550	0.05	4450	400	3	3	-	-	
19332	0.09	26550	0.04	4450	400	3	3	-	-	
21769	0.08	26550	0.04	4450	400	3	3	-	-	
209	8.1	26550	3.7	4450	540	3	2	-	-	R97R57 AD3
227	7.5	26550	3.4	4450	510	2	2	-	-	
234	7.3	26550	3.3	4450	540	3	2	-	-	
249	6.8	26550	3.1	4450	540	3	2	-	-	
270	6.3	26550	2.8	4450	540	2	2	-	-	
296	5.7	26550	2.6	4450	540	3	2	-	-	
297	5.7	26550	2.6	4450	550	2	2	-	-	
336	5.1	26550	2.3	4450	540	3	2	-	-	
349	4.9	26550	2.2	4450	550	2	2	-	-	
370	4.6	26550	2.1	4450	550	2	2	-	-	
379	4.5	26550	2.0	4450	550	3	2	-	-	
420	4.0	26550	1.8	4450	550	2	2	-	-	
431	3.9	26550	1.8	4450	560	3	2	-	-	
466	3.6	26550	1.6	4450	560	2	2	-	-	
484	3.5	26550	1.6	4450	570	3	2	-	-	
549	3.1	26550	1.4	4450	560	2	2	-	-	
560	3.0	26550	1.4	4450	580	3	2	-	-	
632	2.7	26550	1.2	4450	580	3	2	-	-	
737	2.3	26550	1.0	4450	580	3	2	-	-	
755	2.3	26550	1.0	4450	590	2	3	-	-	
824	2.1	26550	0.94	4450	590	3	2	-	-	
878	1.9	26550	0.88	4450	590	2	3	-	-	
934	1.8	26550	0.83	4450	590	2	3	-	-	
938	1.8	26550	0.82	4450	580	3	2	-	-	
1084	1.6	26550	0.71	4450	590	2	3	-	-	
1207	1.4	26550	0.64	4450	590	2	3	-	-	
1228	1.4	26550	0.63	4450	590	3	2	-	-	
1396	1.2	26550	0.55	4450	590	3	2	-	-	
1434	1.2	26550	0.54	4450	590	2	3	-	-	
1583	1.1	26550	0.49	4450	590	3	2	-	-	
1823	0.93	26550	0.42	4450	600	3	2	-	-	
2016	0.84	26550	0.38	4450	600	2	3	-	-	
2245	0.76	26550	0.34	4450	600	2	3	-	-	
2668	0.64	26550	0.29	4450	600	2	3	-	-	
3481	0.49	26550	0.23	4450	600	3	3	-	-	
4004	0.42	26550	0.20	4450	610	3	3	-	-	
4559	0.37	26550	0.17	4450	610	3	3	-	-	
7692	0.22	26550	0.10	4450	610	3	3	-	-	

Weight [lbs]	Stages		AD2	AD3
	Large	Small		
R97R57	2	2	273	280
	2	3	275	282
	3	2	279	286
	3	3	281	288



RF97: +40 lbs / RM97: +50 lbs

8.2.16 R107

R107 AD.. , n _e = 1700 rpm										38060 lb-in		
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']				
						Lg	Sm					
72.88	23	38060	14.7	6330	270	3	-	7	-			
78.57	22	38060	13.7	6530	390	3	-	7	-			
92.70	18	38060	11.6	6620	400	3	-	7	-			
102.53	17	38060	10.5	6620	410	3	-	7	-			
115.63	15	38060	9.3	6620	410	3	-	7	-			
127.68	13	38060	8.4	6620	420	3	-	7	-			
141.83	12	38060	7.6	6620	430	3	-	7	-			
158.68	11	38060	6.8	6620	430	3	-	7	-			
172.34	9.9	38060	6.2	6620	430	3	-	7	-			
203.16	8.4	38060	5.3	6620	440	3	-	7	-			
229.95	7.4	38060	4.7	6620	440	3	-	7	-			
251.15	6.8	38060	4.3	6620	440	3	-	7	-			
29.49	58	38060	36	4260	590	3	-	7	M1-6			
30.77	55	29030	26	4730	320	2	-	7	-			
35.26	48	38060	30	4620	620	3	-	7	M1-6			
40.37	42	38060	27	4910	640	3	-	7	M2			
47.63	36	38060	23	5280	670	3	-	7	-			
52.68	32	38060	20	5510	680	3	-	7	-			
59.41	29	38060	18.1	5800	690	3	-	7	-			
65.60	26	38060	16.4	6050	700	3	-	7	-			
72.88	23	38060	14.7	6330	710	3	-	7	-			
78.57	22	38060	13.7	6530	810	3	-	7	-			
92.70	18	38060	11.6	6620	820	3	-	7	-			
102.53	17	38060	10.5	6620	830	3	-	7	-			
115.63	15	38060	9.3	6620	830	3	-	7	-			
127.68	13	38060	8.4	6620	840	3	-	7	-			
141.83	12	38060	7.6	6620	840	3	-	7	-			
158.68	11	38060	6.8	6620	850	3	-	7	-			
172.34	9.9	38060	6.2	6620	850	3	-	7	-			
203.16	8.4	38060	5.3	6620	860	3	-	7	-			
13.66	124	37170	76	2970	680	2	-	7	M1-6			
15.65	109	38060	68	3140	720	2	-	7	M1-6			
18.21	93	38060	58	3390	800	2	-	7	M1-6			
20.07	85	38060	53	3550	850	2	-	7	M1-6			
22.62	75	38060	47	3760	900	2	-	7	M2			
24.90	68	38060	42	3940	920	2	-	7	-			
27.58	62	38060	38	4130	950	2	-	7	-			
29.49	58	38060	36	4260	1270	3	-	7	M1-6			
30.77	55	38060	34	4350	970	2	-	7	-			
35.26	48	38060	30	4620	1300	3	-	7	M1-6			
40.37	42	38060	27	4910	1320	3	-	7	M2			
47.63	36	38060	23	5280	1340	3	-	7	-			
52.68	32	38060	20	5510	1350	3	-	7	-			
59.41	29	38060	18.1	5800	1360	3	-	7	-			
65.60	26	38060	16.4	6050	1370	3	-	7	-			
72.88	23	38060	14.7	6330	1370	3	-	7	-			
78.57	22	38060	13.7	6530	1480	3	-	7	-			
92.70	18	38060	11.6	6620	1490	3	-	7	-			
102.53	17	38060	10.5	6620	1490	3	-	7	-			
115.63	15	38060	9.3	6620	1500	3	-	7	-			
127.68	13	38060	8.4	6620	1500	3	-	7	-			
141.83	12	38060	7.6	6620	1510	3	-	7	-			
158.68	11	38060	6.8	6620	1510	3	-	7	-			


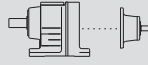
8

R107 AD.. , n_e = 1700 rpm 38060 lb-in



i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']		
						Lg	Sm			
4.92	346	17700	100	2600	1410	2	-	9	M1-6	R107 AD6
5.82	292	19030	91	2740	1410	2	-	9	M1-6	
6.66	255	21770	91	2800	1350	2	-	9	M1-6	
7.86	216	25670	91	2860	1140	2	-	9	M1-6	
8.56	199	27970	91	2710	1490	2	-	7	M1-6	
10.13	168	33100	91	2710	1410	2	-	7	M1-6	
11.59	147	37880	91	2700	1350	2	-	7	M1-6	
13.66	124	38060	77	2930	1400	2	-	7	M1-6	
15.65	109	38060	68	3140	1440	2	-	7	M1-6	
18.21	93	38060	58	3390	1480	2	-	7	M1-6	
20.07	85	38060	53	3550	1500	2	-	7	M1-6	
22.62	75	38060	47	3760	1520	2	-	7	M2	
24.90	68	38060	42	3940	1540	2	-	7	-	
29.49	58	38060	36	4260	1870	3	-	7	M1-6	
35.26	48	38060	30	4620	1900	3	-	7	M1-6	
40.37	42	38060	27	4910	1910	3	-	7	M2	
47.63	36	38060	23	5280	1930	3	-	7	-	
52.68	32	38060	20	5510	1940	3	-	7	-	
59.41	29	38060	18.1	5800	1950	3	-	7	-	
65.60	26	38060	16.4	6050	1960	3	-	7	-	
78.57	22	38060	13.7	6530	2060	3	-	7	-	
92.70	18	38060	11.6	6620	2070	3	-	7	-	
102.53	17	38060	10.5	6620	2080	3	-	7	-	
115.63	15	38060	9.3	6620	2080	3	-	7	-	
127.68	13	38060	8.4	6620	2090	3	-	7	-	

Weight [lbs]	Stages		AD3	AD4	AD5	AD6
	Large	Small				
R107	2	-	349	363	393	423
	3	-	363	377	407	437
RF107: +10 lbs / RM107: +205 lbs						



8.2.17 R107R77

R107R77 AD.. , n _e = 1700 rpm										38060 lb-in	
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm				
172	9.9	38060	6.3	6620	240	2	2	-	-		
187	9.1	38060	5.9	6620	290	3	2	-	-		
193	8.8	38060	5.7	6620	290	2	2	-	-		
214	7.9	38060	5.2	6620	300	3	2	-	-		
220	7.7	38060	5.0	6620	280	2	2	-	-		
253	6.7	38060	4.4	6620	320	3	2	-	-		
256	6.6	38060	4.3	6620	300	2	2	-	-		
284	6.0	38060	3.8	6620	300	2	2	-	-		
285	6.0	38060	3.9	6620	320	3	2	-	-		
323	5.3	38060	3.4	6620	320	3	2	-	-		
325	5.2	38060	3.4	6620	310	2	2	-	-		
369	4.6	38060	3.0	6620	330	3	2	-	-		
377	4.5	38060	2.9	6620	320	2	2	-	-		
417	4.1	38060	2.7	6620	350	3	2	-	-		
426	4.0	38060	2.6	6620	310	2	2	-	-		
469	3.6	38060	2.3	6620	320	2	2	-	-		
492	3.5	38060	2.3	6620	360	3	2	-	-		
528	3.2	38060	2.1	6620	360	2	3	-	-		
544	3.1	38060	2.0	6620	360	3	2	-	-		
614	2.8	38060	1.8	6620	360	3	2	-	-		
626	2.7	38060	1.8	6620	350	2	3	-	-		
717	2.4	38060	1.5	6620	320	2	3	-	-		
815	2.1	38060	1.4	6620	320	2	3	-	-		
822	2.1	38060	1.3	6620	360	3	2	-	-		
919	1.8	38060	1.2	6620	360	2	3	-	-		
939	1.8	38060	1.2	6620	360	3	2	-	-		
1055	1.6	38060	1.0	6620	370	2	3	-	-		
1104	1.5	38060	1.0	6620	380	3	2	-	-		
1209	1.4	38060	0.92	6620	380	2	3	-	-	R107R77	AD2
1226	1.4	38060	0.90	6620	380	3	2	-	-		
1400	1.2	38060	0.79	6620	380	3	2	-	-		
1407	1.2	38060	0.79	6620	380	2	3	-	-		
1550	1.1	38060	0.71	6620	380	2	3	-	-		
1599	1.1	38060	0.69	6620	380	3	2	-	-		
1693	1.0	38060	0.65	6620	380	2	3	-	-		
1827	0.93	38060	0.61	6620	380	3	2	-	-		
1987	0.86	38060	0.56	6620	380	3	2	-	-		
2067	0.82	38060	0.54	6620	380	2	3	-	-		
2280	0.75	38060	0.49	6620	380	2	3	-	-		
2339	0.73	38060	0.48	6620	390	3	3	-	-		
2653	0.64	38060	0.42	6620	380	2	3	-	-		
2688	0.63	38060	0.42	6620	390	3	3	-	-		
3034	0.56	38060	0.36	6620	380	2	3	-	-		
3039	0.56	38060	0.37	6620	390	3	3	-	-		
3343	0.51	38060	0.33	6620	390	2	3	-	-		
3432	0.50	38060	0.33	6620	390	3	3	-	-		
3896	0.44	38060	0.29	6620	390	3	3	-	-		
3918	0.43	38060	0.28	6620	390	2	3	-	-		
4435	0.38	38060	0.25	6620	390	3	3	-	-		
5168	0.33	38060	0.22	6620	400	3	3	-	-		
5914	0.29	38060	0.19	6620	390	3	3	-	-		
6743	0.25	38060	0.17	6620	400	3	3	-	-		
7583	0.22	38060	0.15	6620	400	3	3	-	-		
8618	0.20	38060	0.13	6620	400	3	3	-	-		
9547	0.18	38060	0.12	6620	400	3	3	-	-		
11256	0.15	38060	0.10	6620	400	3	3	-	-		
12829	0.13	38060	0.09	6620	400	3	3	-	-		

8

R107R77 AD.. , n _e = 1700 rpm										38060 lb-in	
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm				
14936	0.11	38060	0.08	6620	400	3	3	-	-	R107R77	
17080	0.10	38060	0.07	6620	400	3	3	-	-		AD2
20018	0.08	38060	0.06	6620	400	3	3	-	-		
172	9.9	38060	6.3	6620	460	2	2	-	-	R107R77	
187	9.1	38060	5.9	6620	500	3	2	-	-		AD3
193	8.8	38060	5.7	6620	510	2	2	-	-		
214	7.9	38060	5.2	6620	520	3	2	-	-		
220	7.7	38060	5.0	6620	500	2	2	-	-		
253	6.7	38060	4.4	6620	530	3	2	-	-		
256	6.6	38060	4.3	6620	510	2	2	-	-		
284	6.0	38060	3.8	6620	520	2	2	-	-		
285	6.0	38060	3.9	6620	530	3	2	-	-		
323	5.3	38060	3.4	6620	540	3	2	-	-		
325	5.2	38060	3.4	6620	520	2	2	-	-		
369	4.6	38060	3.0	6620	540	3	2	-	-		
377	4.5	38060	2.9	6620	530	2	2	-	-		
417	4.1	38060	2.7	6620	560	3	2	-	-		
426	4.0	38060	2.6	6620	530	2	2	-	-		
469	3.6	38060	2.3	6620	540	2	2	-	-		
492	3.5	38060	2.3	6620	570	3	2	-	-		
528	3.2	38060	2.1	6620	570	2	3	-	-		
544	3.1	38060	2.0	6620	570	3	2	-	-		
614	2.8	38060	1.8	6620	580	3	2	-	-		
626	2.7	38060	1.8	6620	560	2	3	-	-		
717	2.4	38060	1.5	6620	570	2	3	-	-		
815	2.1	38060	1.4	6620	570	2	3	-	-		
822	2.1	38060	1.3	6620	580	3	2	-	-		
919	1.8	38060	1.2	6620	580	2	3	-	-		
939	1.8	38060	1.2	6620	580	3	2	-	-		
1055	1.6	38060	1.0	6620	580	2	3	-	-		
1104	1.5	38060	1.0	6620	590	3	2	-	-		
1209	1.4	38060	0.92	6620	590	2	3	-	-		
1226	1.4	38060	0.90	6620	590	3	2	-	-		
1400	1.2	38060	0.79	6620	590	3	2	-	-		
1407	1.2	38060	0.79	6620	590	2	3	-	-		
1550	1.1	38060	0.71	6620	590	2	3	-	-		
1599	1.1	38060	0.69	6620	600	3	2	-	-		
1693	1.0	38060	0.65	6620	590	2	3	-	-		
1827	0.93	38060	0.61	6620	600	3	2	-	-		
1987	0.86	38060	0.56	6620	600	3	2	-	-		
2067	0.82	38060	0.54	6620	600	2	3	-	-		
2339	0.73	38060	0.48	6620	600	3	3	-	-		
2688	0.63	38060	0.42	6620	600	3	3	-	-		
3039	0.56	38060	0.37	6620	600	3	3	-	-		
3432	0.50	38060	0.33	6620	600	3	3	-	-		
3896	0.44	38060	0.29	6620	600	3	3	-	-		
4435	0.38	38060	0.25	6620	610	3	3	-	-		
5168	0.33	38060	0.22	6620	610	3	3	-	-		
5914	0.29	38060	0.19	6620	610	3	3	-	-		
6743	0.25	38060	0.17	6620	610	3	3	-	-		
7583	0.22	38060	0.15	6620	610	3	3	-	-		
8618	0.20	38060	0.13	6620	610	3	3	-	-		
9547	0.18	38060	0.12	6620	610	3	3	-	-		
11256	0.15	38060	0.10	6620	610	3	3	-	-		


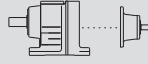
R107R77 AD.. , n_e = 1700 rpm 38060 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']		
						Lg	Sm			
172	9.9	38060	6.3	6620	850	2	2	-	-	R107R77 AD4
187	9.1	38060	5.9	6620	890	3	2	-	-	
193	8.8	38060	5.7	6620	890	2	2	-	-	
214	7.9	38060	5.2	6620	900	3	2	-	-	
220	7.7	38060	5.0	6620	890	2	2	-	-	
253	6.7	38060	4.4	6620	920	3	2	-	-	
256	6.6	38060	4.3	6620	900	2	2	-	-	
284	6.0	38060	3.8	6620	910	2	2	-	-	
285	6.0	38060	3.9	6620	920	3	2	-	-	
323	5.3	38060	3.4	6620	920	3	2	-	-	
325	5.2	38060	3.4	6620	910	2	2	-	-	
369	4.6	38060	3.0	6620	930	3	2	-	-	
377	4.5	38060	2.9	6620	920	2	2	-	-	
417	4.1	38060	2.7	6620	940	3	2	-	-	
492	3.5	38060	2.3	6620	950	3	2	-	-	
528	3.2	38060	2.1	6620	950	2	3	-	-	
544	3.1	38060	2.0	6620	950	3	2	-	-	
614	2.8	38060	1.8	6620	950	3	2	-	-	
626	2.7	38060	1.8	6620	950	2	3	-	-	
717	2.4	38060	1.5	6620	950	2	3	-	-	
822	2.1	38060	1.3	6620	960	3	2	-	-	
919	1.8	38060	1.2	6620	960	2	3	-	-	
939	1.8	38060	1.2	6620	960	3	2	-	-	
1055	1.6	38060	1.0	6620	960	2	3	-	-	
1104	1.5	38060	1.0	6620	970	3	2	-	-	
1209	1.4	38060	0.92	6620	970	2	3	-	-	
1226	1.4	38060	0.90	6620	970	3	2	-	-	
1400	1.2	38060	0.79	6620	970	3	2	-	-	
1407	1.2	38060	0.79	6620	970	2	3	-	-	
1550	1.1	38060	0.71	6620	970	2	3	-	-	
1599	1.1	38060	0.69	6620	970	3	2	-	-	
1827	0.93	38060	0.61	6620	970	3	2	-	-	
2339	0.73	38060	0.48	6620	980	3	3	-	-	
2688	0.63	38060	0.42	6620	980	3	3	-	-	
3432	0.50	38060	0.33	6620	980	3	3	-	-	
3896	0.44	38060	0.29	6620	980	3	3	-	-	
4435	0.38	38060	0.25	6620	980	3	3	-	-	
5168	0.33	38060	0.22	6620	980	3	3	-	-	
6743	0.25	38060	0.17	6620	980	3	3	-	-	
7583	0.22	38060	0.15	6620	980	3	3	-	-	



Weight [lbs]	Stages		AD2	AD3	AD4
	Large	Small			
R107R77	2	2	424	432	445
	2	3	427	434	448
	3	2	439	446	459
	3	3	441	448	462

RF107: +10 lbs / RM107: +205 lbs

8.2.18 R137

R137 AD.. , n _e = 1700 rpm										70800 lb-in		
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']			R137	AD4
						Lg	Sm					
50.86	33	69740	39	12060	450	3	-	6	M2,4			
59.17	29	70800	34	12000	490	3	-	6	M2			
65.20	26	70800	31	12000	520	3	-	6	-			
73.49	23	70800	27	12000	540	3	-	6	-			
80.91	21	70800	25	12000	560	3	-	6	-			
88.70	19	70800	23	12000	700	3	-	6	-			
103.20	16	70800	19.4	12000	710	3	-	6	-			
113.72	15	70800	17.6	12000	720	3	-	6	-			
128.18	13	70800	15.6	12000	730	3	-	6	-			
141.12	12	70800	14.2	12000	740	3	-	6	-			
156.31	11	70800	12.8	12000	750	3	-	6	-			
174.40	9.7	70800	11.5	12000	760	3	-	6	-			
188.45	9.0	70800	10.6	12000	760	3	-	6	-			
222.60	7.6	70800	9.0	12000	770	3	-	6	-			
27.83	61	67970	69	11130	1050	3	-	7	M1-6			
29.57	57	57610	54	12640	490	2	-	6	-			
32.91	52	70800	61	11780	1070	3	-	6	M1-6			
37.65	45	70800	53	12000	1100	3	-	6	M1-6			
44.39	38	70800	45	12000	1140	3	-	6	M1-6			
50.86	33	70800	39	12000	1160	3	-	6	M2,4			
59.17	29	70800	34	12000	1190	3	-	6	M2			
65.20	26	70800	31	12000	1200	3	-	6	-			
73.49	23	70800	27	12000	1220	3	-	6	-			
80.91	21	70800	25	12000	1230	3	-	6	-			
88.70	19	70800	23	12000	1370	3	-	6	-			
103.20	16	70800	19.4	12000	1380	3	-	6	-			
113.72	15	70800	17.6	12000	1390	3	-	6	-			
128.18	13	70800	15.6	12000	1400	3	-	6	-			
141.12	12	70800	14.2	12000	1410	3	-	6	-			
156.31	11	70800	12.8	12000	1420	3	-	6	-			
174.40	9.7	70800	11.5	12000	1420	3	-	6	-			
22.00	77	70270	89	9580	670	2	-	6	M1-6			
24.12	70	70800	82	10020	710	2	-	6	M1-6			
27.83	61	67970	69	11130	1670	3	-	7	M1-6			
29.57	57	68850	65	11380	900	2	-	6	M2			
32.91	52	70800	61	11780	1680	3	-	6	M1-6			
37.65	45	70800	53	12000	1710	3	-	6	M1-6			
44.39	38	70800	45	12000	1750	3	-	6	M1-6			
50.86	33	70800	39	12000	1770	3	-	6	M2,4			
59.17	29	70800	34	12000	1790	3	-	6	M2			
65.20	26	70800	31	12000	1800	3	-	6	-			
73.49	23	70800	27	12000	1820	3	-	6	-			
80.91	21	70800	25	12000	1830	3	-	6	-			
88.70	19	70800	23	12000	1960	3	-	6	-			
103.20	16	70800	19.4	12000	1980	3	-	6	-			
113.72	15	70800	17.6	12000	1980	3	-	6	-			
128.18	13	70800	15.6	12000	1990	3	-	6	-			
141.12	12	70800	14.2	12000	2000	3	-	6	-			


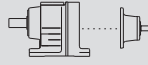
R137 AD.. , n_e = 1700 rpm 70800 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']		
						Lg	Sm			
5.15	330	36290	196	7540	1200	2	-	8	M1-6	R137 AD7
6.38	266	38940	170	8020	1320	2	-	8	M1-6	
7.59	224	40710	149	8480	1430	2	-	8	M1-6	
8.71	195	61070	195	6360	1230	2	-	6	M1-6	
10.79	158	63720	164	6940	1520	2	-	6	M1-6	
12.83	133	65400	142	7510	1750	2	-	6	M1-6	
14.51	117	70800	136	7450	1510	2	-	6	M1-6	
16.80	101	70800	117	8150	1770	2	-	6	M1-6	
19.04	89	70800	103	8770	1940	2	-	6	M1-6	
22.00	77	70800	89	9520	2170	2	-	6	M1-6	
24.12	70	70800	82	10020	2280	2	-	6	M1-6	
27.83	61	67970	69	11130	3780	3	-	7	M1-6	
32.91	52	70800	61	11780	3790	3	-	6	M1-6	
37.65	45	70800	53	12000	3820	3	-	6	M1-6	
44.39	38	70800	45	12000	3850	3	-	6	M1-6	
50.86	33	70800	39	12000	3870	3	-	6	M2,4	
59.17	29	70800	34	12000	3890	3	-	6	-	
65.20	26	70800	31	12000	3900	3	-	6	-	
88.70	19	70800	23	12000	4040	3	-	6	-	
103.20	16	70800	19.4	12000	4050	3	-	6	-	
113.72	15	70800	17.6	12000	4060	3	-	6	-	

Weight [lbs]	Stages		AD4	AD5	AD6	AD7
	Large	Small				
R137	2	-	544	570	600	619
	3	-	566	592	622	641

RF137: +50 lbs / RM137: +290 lbs



8.2.19 R137R77

R137R77 AD.. , n _e = 1700 rpm										70800 lb-in		
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']				
						Lg	Sm					
255	6.7	70800	8.1	12000	210	3	2	-	-			
291	5.8	70800	7.1	12000	230	3	2	-	-			
297	5.7	70800	6.8	12000	250	2	2	-	-			
323	5.3	70800	6.4	12000	240	3	2	-	-			
339	5.0	70800	6.0	12000	260	2	2	-	-			
376	4.5	70800	5.4	12000	260	2	2	-	-			
381	4.5	70800	5.4	12000	260	3	2	-	-			
428	4.0	70800	4.8	12000	310	3	2	-	-			
453	3.8	70800	4.5	12000	270	2	2	-	-			
490	3.5	70800	4.2	12000	320	3	2	-	-			
517	3.3	70800	3.9	12000	280	2	2	-	-			
560	3.0	70800	3.7	12000	310	3	2	-	-			
564	3.0	70800	3.6	12000	280	2	2	-	-			
609	2.8	70800	3.4	12000	330	2	3	-	-			
629	2.7	70800	3.3	12000	340	3	2	-	-			
699	2.4	70800	2.9	12000	340	2	3	-	-			
730	2.3	70800	2.8	12000	340	3	2	-	-			
831	2.0	70800	2.5	12000	340	3	2	-	-			
888	1.9	70800	2.3	12000	340	2	3	-	-			
951	1.8	70800	2.2	12000	330	3	2	-	-			
1043	1.6	70800	2.0	12000	350	2	3	-	-			
1090	1.6	70800	1.9	12000	340	3	2	-	-			
1105	1.5	70800	1.9	12000	350	2	3	-	-			
1226	1.4	70800	1.7	12000	350	3	2	-	-			
1256	1.4	70800	1.6	12000	350	2	3	-	-			
1391	1.2	70800	1.5	12000	290	2	3	-	-			
1397	1.2	70800	1.5	12000	310	3	2	-	-			
1586	1.1	70800	1.3	12000	370	2	3	-	-			
1598	1.1	70800	1.3	12000	370	3	2	-	-			
1839	0.92	70800	1.1	12000	370	3	2	-	-			
1863	0.91	70800	1.1	12000	370	2	3	-	-			
2073	0.82	70800	0.99	12000	360	3	2	-	-			
2242	0.76	70800	0.92	12000	370	2	3	-	-			
2412	0.70	70800	0.85	12000	370	3	2	-	-			
2484	0.68	70800	0.83	12000	370	2	3	-	-			
2658	0.64	70800	0.77	12000	370	3	2	-	-			
2929	0.58	70800	0.70	12000	370	2	3	-	-			
2993	0.57	70800	0.70	12000	390	3	3	-	-			
3338	0.51	70800	0.62	12000	380	2	3	-	-			
3454	0.49	70800	0.61	12000	390	3	3	-	-			
3514	0.48	70800	0.59	12000	380	2	3	-	-			
3928	0.43	70800	0.53	12000	390	3	3	-	-			
4018	0.42	70800	0.51	12000	380	2	3	-	-			
4464	0.38	70800	0.47	12000	390	3	3	-	-			
4709	0.36	70800	0.44	12000	380	2	3	-	-			
5116	0.33	70800	0.41	12000	390	3	3	-	-			
5834	0.29	70800	0.36	12000	390	3	3	-	-			
6559	0.26	70800	0.32	12000	390	3	3	-	-			
7479	0.23	70800	0.28	12000	390	3	3	-	-			
8784	0.19	70800	0.24	12000	390	3	3	-	-			
10573	0.16	70800	0.20	12000	390	3	3	-	-			
11712	0.15	70800	0.18	12000	390	3	3	-	-			
12921	0.13	70800	0.16	12000	390	3	3	-	-			
14777	0.12	70800	0.14	12000	390	3	3	-	-			
16566	0.10	70800	0.13	12000	400	3	3	-	-			
18945	0.09	70800	0.11	12000	400	3	3	-	-			
22203	0.08	70800	0.09	12000	400	3	3	-	-			



R137R77

AD2

R137R77 AD.. , n_e = 1700 rpm 70800 lb-in


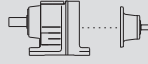
i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']		
						Lg	Sm			
175	9.7	70800	11.8	12000	390	3	2	-	-	
197	8.6	70800	10.5	12000	400	3	2	-	-	
223	7.6	70800	9.2	12000	410	3	2	-	-	
255	6.7	70800	8.1	12000	420	3	2	-	-	
291	5.8	70800	7.1	12000	450	3	2	-	-	
297	5.7	70800	6.8	12000	470	2	2	-	-	
323	5.3	70800	6.4	12000	460	3	2	-	-	
339	5.0	70800	6.0	12000	470	2	2	-	-	
376	4.5	70800	5.4	12000	480	2	2	-	-	
381	4.5	70800	5.4	12000	480	3	2	-	-	
428	4.0	70800	4.8	12000	520	3	2	-	-	
453	3.8	70800	4.5	12000	490	2	2	-	-	
490	3.5	70800	4.2	12000	530	3	2	-	-	
517	3.3	70800	3.9	12000	490	2	2	-	-	
560	3.0	70800	3.7	12000	520	3	2	-	-	
564	3.0	70800	3.6	12000	490	2	2	-	-	
609	2.8	70800	3.4	12000	550	2	3	-	-	
629	2.7	70800	3.3	12000	550	3	2	-	-	
699	2.4	70800	2.9	12000	550	2	3	-	-	
730	2.3	70800	2.8	12000	550	3	2	-	-	
831	2.0	70800	2.5	12000	550	3	2	-	-	
888	1.9	70800	2.3	12000	560	2	3	-	-	
951	1.8	70800	2.2	12000	550	3	2	-	-	
1043	1.6	70800	2.0	12000	560	2	3	-	-	
1090	1.6	70800	1.9	12000	550	3	2	-	-	
1105	1.5	70800	1.9	12000	560	2	3	-	-	R137R77
1226	1.4	70800	1.7	12000	570	3	2	-	-	AD3
1256	1.4	70800	1.6	12000	560	2	3	-	-	
1391	1.2	70800	1.5	12000	570	2	3	-	-	
1397	1.2	70800	1.5	12000	570	3	2	-	-	
1586	1.1	70800	1.3	12000	580	2	3	-	-	
1598	1.1	70800	1.3	12000	580	3	2	-	-	
1839	0.92	70800	1.1	12000	580	3	2	-	-	
1863	0.91	70800	1.1	12000	580	2	3	-	-	
2073	0.82	70800	0.99	12000	580	3	2	-	-	
2242	0.76	70800	0.92	12000	580	2	3	-	-	
2412	0.70	70800	0.85	12000	580	3	2	-	-	
2484	0.68	70800	0.83	12000	590	2	3	-	-	
2658	0.64	70800	0.77	12000	590	3	2	-	-	
2929	0.58	70800	0.70	12000	590	2	3	-	-	
2993	0.57	70800	0.70	12000	600	3	3	-	-	
3454	0.49	70800	0.61	12000	600	3	3	-	-	
3928	0.43	70800	0.53	12000	600	3	3	-	-	
4464	0.38	70800	0.47	12000	600	3	3	-	-	
5116	0.33	70800	0.41	12000	600	3	3	-	-	
5834	0.29	70800	0.36	12000	600	3	3	-	-	
6559	0.26	70800	0.32	12000	600	3	3	-	-	
7479	0.23	70800	0.28	12000	610	3	3	-	-	
8784	0.19	70800	0.24	12000	610	3	3	-	-	
10573	0.16	70800	0.20	12000	610	3	3	-	-	
11712	0.15	70800	0.18	12000	610	3	3	-	-	
175	9.7	70800	11.8	12000	800	3	2	-	-	
197	8.6	70800	10.5	12000	810	3	2	-	-	
223	7.6	70800	9.2	12000	810	3	2	-	-	
255	6.7	70800	8.1	12000	820	3	2	-	-	R137R77
291	5.8	70800	7.1	12000	840	3	2	-	-	AD4
297	5.7	70800	6.8	12000	860	2	2	-	-	
323	5.3	70800	6.4	12000	850	3	2	-	-	

R137R77 AD.. , n_e = 1700 rpm 70800 lb-in

i [ratio]	n _a [rpm]	T _{a max} [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']		
						Lg	Sm			
339	5.0	70800	6.0	12000	860	2	2	-	-	R137R77 AD4
376	4.5	70800	5.4	12000	870	2	2	-	-	
381	4.5	70800	5.4	12000	870	3	2	-	-	
428	4.0	70800	4.8	12000	910	3	2	-	-	
453	3.8	70800	4.5	12000	880	2	2	-	-	
490	3.5	70800	4.2	12000	920	3	2	-	-	
560	3.0	70800	3.7	12000	910	3	2	-	-	
609	2.8	70800	3.4	12000	930	2	3	-	-	
629	2.7	70800	3.3	12000	930	3	2	-	-	
699	2.4	70800	2.9	12000	930	2	3	-	-	
730	2.3	70800	2.8	12000	930	3	2	-	-	
831	2.0	70800	2.5	12000	940	3	2	-	-	
888	1.9	70800	2.3	12000	940	2	3	-	-	
1043	1.6	70800	2.0	12000	940	2	3	-	-	
1105	1.5	70800	1.9	12000	940	2	3	-	-	
1226	1.4	70800	1.7	12000	950	3	2	-	-	
1586	1.1	70800	1.3	12000	960	2	3	-	-	
1598	1.1	70800	1.3	12000	960	3	2	-	-	
1839	0.92	70800	1.1	12000	960	3	2	-	-	
1863	0.91	70800	1.1	12000	960	2	3	-	-	
2993	0.57	70800	0.70	12000	970	3	3	-	-	
3454	0.49	70800	0.61	12000	970	3	3	-	-	
3928	0.43	70800	0.53	12000	980	3	3	-	-	
4464	0.38	70800	0.47	12000	980	3	3	-	-	
5834	0.29	70800	0.36	12000	980	3	3	-	-	
7479	0.23	70800	0.28	12000	980	3	3	-	-	
8784	0.19	70800	0.24	12000	980	3	3	-	-	

Weight [lbs]	Stages		AD2	AD3	AD4
	Large	Small			
R137R77	2	2	607	614	628
	2	3	610	617	630
	3	2	629	636	650
	3	3	632	639	652
RF137: +50 lbs / RM137: +290 lbs					

8.2.20 R147

R147 AD.. , n _e = 1700 rpm										115050 lb-in				
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']						
						Lg	Sm							
83.47	20	115050	39	14090	510	3	-	6	M2	R147	AD4			
94.60	18	115050	34	14090	520	3	-	6	-					
109.31	16	115050	30	14090	550	3	-	5	-					
119.86	14	115050	27	14090	560	3	-	5	-					
146.91	12	115050	22	14090	590	3	-	5	-					
163.31	10	115050	19.9	14090	600	3	-	5	-					
46.65	36	115050	70	14090	810	3	-	6	M1-6	R147	AD5			
52.87	32	115050	61	14090	860	3	-	6	M1-6					
61.09	28	115050	53	14090	890	3	-	6	M2					
66.99	25	115050	48	14090	910	3	-	6	-					
72.09	24	115050	45	14090	1160	3	-	6	M2,4					
83.47	20	115050	39	14090	1190	3	-	6	M2					
94.60	18	115050	34	14090	1210	3	-	6	-					
109.31	16	115050	30	14090	1230	3	-	5	-					
119.86	14	115050	27	14090	1240	3	-	5	-					
146.91	12	115050	22	14090	1260	3	-	5	-					
163.31	10	115050	19.9	14090	1270	3	-	5	-					
35.64	48	114170	90	14130	1380	3	-	6	M1-6			R147	AD6	
40.29	42	115050	81	14090	1420	3	-	6	M1-6					
46.65	36	115050	70	14090	1460	3	-	6	M1-6					
52.87	32	115050	61	14090	1480	3	-	6	M1-6					
61.09	28	115050	53	14090	1520	3	-	6	M2					
66.99	25	115050	48	14090	1530	3	-	6	-					
72.09	24	115050	45	14090	1770	3	-	6	M2,4					
83.47	20	115050	39	14090	1790	3	-	6	M2					
94.60	18	115050	34	14090	1810	3	-	6	-					
109.31	16	115050	30	14090	1830	3	-	5	-					
119.86	14	115050	27	14090	1840	3	-	5	-					
146.91	12	115050	22	14090	1860	3	-	5	-					
24.19	70	105320	123	14550	3460	3	-	6	M1-6	R147	AD7			
29.95	57	115050	108	14090	3470	3	-	6	M1-6					
35.64	48	115050	91	14090	3530	3	-	6	M1-6					
40.29	42	115050	81	14090	3570	3	-	6	M1-6					
46.65	36	115050	70	14090	3600	3	-	6	M1-6					
52.87	32	115050	61	14090	3630	3	-	6	M1-6					
61.09	28	115050	53	14090	3660	3	-	6	M2					
66.99	25	115050	48	14090	3670	3	-	6	-					
72.09	24	115050	45	14090	3870	3	-	6	M2,4					
83.47	20	115050	39	14090	3890	3	-	6	M2					
94.60	18	115050	34	14090	3900	3	-	6	-					
109.31	16	115050	30	14090	3920	3	-	5	-					
119.86	14	115050	27	14090	3930	3	-	5	-					
5.00	340	39210	218	13100	5110	2	-	8	M1-6			R147	AD8	
5.89	289	46290	218	13360	5000	2	-	8	M1-6					
7.25	234	56990	219	13600	4830	2	-	8	M1-6					
8.26	206	64960	219	13900	5110	2	-	6	M1-6					
9.74	175	76550	218	13970	5000	2	-	6	M1-6					
11.99	142	93810	218	13930	4840	2	-	5	M1-6					
13.91	122	108860	218	13750	4670	2	-	5	M1-6					
15.64	109	115050	205	14060	4650	2	-	5	M1-6					
18.04	94	91160	140	15140	5070	2	-	5	M1-6					
20.44	83	103550	141	14630	4940	2	-	5	M1-6					
24.19	70	105320	123	14550	5580	3	-	6	M1-6					
29.95	57	115050	108	14090	5590	3	-	6	M1-6					
35.64	48	115050	91	14090	5640	3	-	6	M1-6					

8



8 R / RX - Helical

R / RX.. AD



Weight [lbs]	Stages		AD4	AD5	AD6	AD7	AD8
	Large	Small					
R147	2	-	825	851	877	876	924
	3	-	854	880	906	905	953

RF147: +20 lbs / RM147: +390 lbs

8.2.21 R147R77

R147R77 AD.. , n _e = 1700 rpm										115050 lb-in	
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [°]			
						Lg	Sm				
415	4.1	115050	8.1	14090	220	3	2	-	-		
489	3.5	115050	6.8	14090	250	3	2	-	-		
558	3.0	115050	6.0	14090	260	3	2	-	-		
619	2.7	115050	5.4	14090	260	3	2	-	-		
695	2.4	115050	4.8	14090	310	3	2	-	-		
784	2.2	115050	4.3	14090	310	3	2	-	-		
889	1.9	115050	3.8	14090	320	3	2	-	-		
1029	1.7	115050	3.3	14090	330	3	2	-	-		
1166	1.5	115050	2.9	14090	340	3	2	-	-		
1329	1.3	115050	2.5	14090	340	3	2	-	-		
1536	1.1	115050	2.2	14090	350	3	2	-	-		
1705	1.0	115050	2.0	14090	350	3	2	-	-		
1951	0.87	115050	1.7	14090	340	3	2	-	-		
2211	0.77	115050	1.5	14090	290	3	2	-	-		
2555	0.67	115050	1.3	14090	310	3	2	-	-		
2898	0.59	115050	1.2	14090	370	3	3	-	-		
3302	0.51	115050	1.0	14090	370	3	3	-	-		R147R77 AD2
3754	0.45	115050	0.91	14090	370	3	3	-	-		
4325	0.39	115050	0.79	14090	380	3	3	-	-		
4926	0.35	115050	0.69	14090	380	3	3	-	-		
5568	0.31	115050	0.61	14090	380	3	3	-	-		
6447	0.26	115050	0.53	14090	390	3	3	-	-		
7307	0.23	115050	0.47	14090	390	3	3	-	-		
8443	0.20	115050	0.40	14090	390	3	3	-	-		
9743	0.17	115050	0.35	14090	390	3	3	-	-		
11143	0.15	115050	0.30	14090	390	3	3	-	-		
12344	0.14	115050	0.28	14090	390	3	3	-	-		
14075	0.12	115050	0.24	14090	390	3	3	-	-		
15923	0.11	115050	0.21	14090	390	3	3	-	-		
18210	0.09	115050	0.19	14090	390	3	3	-	-		
21342	0.08	115050	0.16	14090	390	3	3	-	-		
23401	0.07	115050	0.15	14090	390	3	3	-	-		
415	4.1	115050	8.1	14090	440	3	2	-	-		
489	3.5	115050	6.8	14090	470	3	2	-	-		
558	3.0	115050	6.0	14090	470	3	2	-	-		
619	2.7	115050	5.4	14090	480	3	2	-	-		
695	2.4	115050	4.8	14090	520	3	2	-	-		
784	2.2	115050	4.3	14090	530	3	2	-	-		
889	1.9	115050	3.8	14090	530	3	2	-	-		
1029	1.7	115050	3.3	14090	550	3	2	-	-		
1166	1.5	115050	2.9	14090	550	3	2	-	-		
1329	1.3	115050	2.5	14090	550	3	2	-	-		R147R77 AD3
1536	1.1	115050	2.2	14090	560	3	2	-	-		
1705	1.0	115050	2.0	14090	560	3	2	-	-		
1951	0.87	115050	1.7	14090	560	3	2	-	-		
2211	0.77	115050	1.5	14090	560	3	2	-	-		
2555	0.67	115050	1.3	14090	570	3	2	-	-		
2898	0.59	115050	1.2	14090	580	3	3	-	-		
3302	0.51	115050	1.0	14090	580	3	3	-	-		
3754	0.45	115050	0.91	14090	590	3	3	-	-		


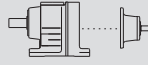
R147R77 AD.. , n_e = 1700 rpm 115050 lb-in

i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']		
						Lg	Sm			
4325	0.39	115050	0.79	14090	590	3	3	-	-	R147R77 AD3
4926	0.35	115050	0.69	14090	590	3	3	-	-	
5568	0.31	115050	0.61	14090	600	3	3	-	-	
6447	0.26	115050	0.53	14090	600	3	3	-	-	
7307	0.23	115050	0.47	14090	600	3	3	-	-	
8443	0.20	115050	0.40	14090	600	3	3	-	-	
9743	0.17	115050	0.35	14090	600	3	3	-	-	
11143	0.15	115050	0.30	14090	600	3	3	-	-	
12344	0.14	115050	0.28	14090	600	3	3	-	-	
415	4.1	115050	8.1	14090	840	3	2	-	-	
489	3.5	115050	6.8	14090	860	3	2	-	-	
558	3.0	115050	6.0	14090	860	3	2	-	-	
619	2.7	115050	5.4	14090	870	3	2	-	-	
695	2.4	115050	4.8	14090	910	3	2	-	-	
784	2.2	115050	4.3	14090	910	3	2	-	-	
889	1.9	115050	3.8	14090	920	3	2	-	-	
1029	1.7	115050	3.3	14090	930	3	2	-	-	
1166	1.5	115050	2.9	14090	930	3	2	-	-	
1329	1.3	115050	2.5	14090	930	3	2	-	-	
1536	1.1	115050	2.2	14090	940	3	2	-	-	
1705	1.0	115050	2.0	14090	950	3	2	-	-	
2898	0.59	115050	1.2	14090	960	3	3	-	-	
3302	0.51	115050	1.0	14090	960	3	3	-	-	
4325	0.39	115050	0.79	14090	970	3	3	-	-	
5568	0.31	115050	0.61	14090	970	3	3	-	-	
6447	0.26	115050	0.53	14090	980	3	3	-	-	
7307	0.23	115050	0.47	14090	980	3	3	-	-	
8443	0.20	115050	0.40	14090	980	3	3	-	-	


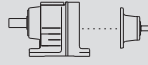
Weight [lbs]	Stages		AD2	AD3	AD4
	Large	Small			
R147R77	3	2	920	928	941
	3	3	922	930	943

RF147: +20 lbs / RM147: +390 lbs

8.2.22 R147R87

R147R87 AD.. , n _e = 1700 rpm										115050 lb-in			
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']					
						Lg	Sm						
368	4.6	115050	9.1	14090	210	3	2	-	-				
426	4.0	115050	7.9	14090	240	3	2	-	-	R147R87	AD2		
462	3.7	115050	7.2	14090	290	3	2	-	-				
533	3.2	115050	6.3	14090	290	3	2	-	-				
189	9.0	115050	17.7	14090	330	3	2	-	-				
214	7.9	115050	15.6	14090	360	3	2	-	-	R147R87	AD3		
247	6.9	115050	13.6	14090	390	3	2	-	-				
280	6.1	115050	12.0	14090	420	3	2	-	-				
326	5.2	115050	10.3	14090	390	3	2	-	-				
368	4.6	115050	9.1	14090	410	3	2	-	-				
426	4.0	115050	7.9	14090	440	3	2	-	-				
462	3.7	115050	7.2	14090	480	3	2	-	-				
533	3.2	115050	6.3	14090	490	3	2	-	-				
159	11	115050	21	14090	720	3	2	-	-	R147R87	AD4		
189	9.0	115050	17.7	14090	760	3	2	-	-				
214	7.9	115050	15.6	14090	790	3	2	-	-				
247	6.9	115050	13.6	14090	810	3	2	-	-				
280	6.1	115050	12.0	14090	830	3	2	-	-				
326	5.2	115050	10.3	14090	810	3	2	-	-				
368	4.6	115050	9.1	14090	830	3	2	-	-				
426	4.0	115050	7.9	14090	850	3	2	-	-				
462	3.7	115050	7.2	14090	890	3	2	-	-				
533	3.2	115050	6.3	14090	900	3	2	-	-				
159	11	115050	21	14090	1390	3	2	-	-			R147R87	AD5
189	9.0	115050	17.7	14090	1430	3	2	-	-				
214	7.9	115050	15.6	14090	1460	3	2	-	-				
247	6.9	115050	13.6	14090	1480	3	2	-	-				
280	6.1	115050	12.0	14090	1500	3	2	-	-				
326	5.2	115050	10.3	14090	1470	3	2	-	-				
368	4.6	115050	9.1	14090	1490	3	2	-	-				
426	4.0	115050	7.9	14090	1520	3	2	-	-				
462	3.7	115050	7.2	14090	1560	3	2	-	-				
533	3.2	115050	6.3	14090	1560	3	2	-	-				
Weight [lbs]		Stages		AD2	AD3	AD4	AD5						
		Large	Small										
R147R87		3	2	965	974	987	1020						
RF147: +20 lbs / RM147: +390 lbs													



8.2.23 R167

R167 AD.. , n _e = 1700 rpm										159300 lb-in		
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Re} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']				
						Lg	Sm					
73.70	23	159300	61	26980	560	3	-	6	-			
82.91	21	159300	54	26980	1120	3	-	5	M2,4			
93.19	18	159300	48	26980	1140	3	-	5	M2			
107.49	16	159300	42	26980	1160	3	-	5	-			
121.81	14	159300	37	26980	1180	3	-	5	-			R167 AD5
139.98	12	159300	32	26980	1200	3	-	5	-			
153.07	11	159300	29	26980	1210	3	-	5	-			
186.93	9.1	159300	24	26980	1240	3	-	5	-			
229.71	7.4	159300	19.6	26980	1250	3	-	5	-			
30.71	55	88500	80	26980	760	2	-	5	-			
34.41	49	110630	91	26980	1480	3	-	6	M1-6			
37.74	45	79650	59	26980	1140	2	-	5	-			
39.92	43	128330	91	26980	1400	3	-	6	M1-6			
44.87	38	144260	91	26980	1330	3	-	6	M1-6			
51.76	33	159300	87	26980	1230	3	-	6	M1-6			
58.65	29	159300	77	26980	1300	3	-	6	M2,4			
67.40	25	159300	67	26980	1350	3	-	6	-			
73.70	23	159300	61	26980	1370	3	-	6	-			
82.91	21	159300	54	26980	1730	3	-	5	M2,4			
93.19	18	159300	48	26980	1750	3	-	5	M2			
107.49	16	159300	42	26980	1770	3	-	5	-			
121.81	14	159300	37	26980	1790	3	-	5	-			
139.98	12	159300	32	26980	1800	3	-	5	-			
153.07	11	159300	29	26980	1810	3	-	5	-			
186.93	9.1	159300	24	26980	1840	3	-	5	-			
30.71	55	88500	80	26980	2380	2	-	5	-			
34.41	49	159300	131	26980	2780	3	-	6	M1-6			
39.92	43	159300	113	26980	2960	3	-	6	M1-6			
44.87	38	159300	100	26980	3120	3	-	6	M1-6			
51.76	33	159300	87	26980	3300	3	-	6	M1-6			
58.65	29	159300	77	26980	3430	3	-	6	M2,4			
67.40	25	159300	67	26980	3520	3	-	6	-			
73.70	23	159300	61	26980	3540	3	-	6	-			
82.91	21	159300	54	26980	3830	3	-	5	M2,4			
93.19	18	159300	48	26980	3850	3	-	5	M2			
107.49	16	159300	42	26980	3870	3	-	5	-			
121.81	14	159300	37	26980	3890	3	-	5	-			
139.98	12	159300	32	26980	3900	3	-	5	-			
153.07	11	159300	29	26980	3910	3	-	5	-			
10.24	166	150450	408	16910	3980	2	-	5	M1-6			
11.99	142	150450	349	18230	4140	2	-	5	M1-6			
14.48	117	159300	306	19280	4180	2	-	5	M1-6			
16.98	100	132750	217	22580	4660	2	-	5	M1-6			
19.03	89	141600	207	23080	4610	2	-	5	M1-6			
21.85	78	115050	146	26270	5000	2	-	5	M1-6			
23.71	72	159300	190	24100	5260	3	-	6	M1-6			
24.57	69	123900	140	26890	4940	2	-	5	M1-6			
27.96	61	159300	161	25870	5350	3	-	6	M1-6			
34.41	49	159300	131	26980	5440	3	-	6	M1-6			
39.92	43	159300	113	26980	5490	3	-	6	M1-6			
44.87	38	159300	100	26980	5520	3	-	6	M1-6			
51.76	33	159300	87	26980	5560	3	-	6	M1-6			
58.65	29	159300	77	26980	5590	3	-	6	M2,4			
82.91	21	159300	54	26980	5960	3	-	5	M2,4			
93.19	18	159300	48	26980	5980	3	-	5	M2			
107.49	16	159300	42	26980	5990	3	-	5	-			
121.81	14	159300	37	26980	6010	3	-	5	-			



Weight [lbs]	Stages		AD5	AD6	AD7	AD8
	Large	Small				
R167	2	-	1415	1452	1439	1491
	3	-	1429	1466	1453	1505

RF167: +20 lbs / RM167: +450 lbs

8.2.24 R167R97

R167R97 AD.. , n _e = 1700 rpm										159300 lb-in		
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']				
						Lg	Sm					
279	6.1	159300	16.6	26980	360	3	2	-	-			
303	5.6	159300	15.3	26980	380	3	2	-	-			
335	5.1	159300	13.8	26980	360	3	2	-	-			
376	4.5	159300	12.3	26980	390	3	2	-	-			
432	3.9	159300	10.7	26980	440	3	2	-	-			
503	3.4	159300	9.2	26980	440	3	2	-	-			
579	2.9	159300	8.0	26980	480	3	2	-	-			
656	2.6	159300	7.1	26980	470	3	2	-	-			
760	2.2	159300	6.1	26980	440	3	2	-	-			
861	2.0	159300	5.4	26980	460	3	2	-	-			
999	1.7	159300	4.6	26980	480	3	2	-	-			
1123	1.5	159300	4.1	26980	490	3	2	-	-			
1279	1.3	159300	3.6	26980	480	3	2	-	-			
1438	1.2	159300	3.2	26980	500	3	2	-	-			
1670	1.0	159300	2.8	26980	530	3	2	-	-			
1877	0.91	159300	2.5	26980	540	3	2	-	-			
2085	0.82	159300	2.2	26980	540	3	2	-	-			
2333	0.73	159300	2.0	26980	540	3	2	-	-			
2657	0.64	159300	1.7	26980	540	3	2	-	-			
3099	0.55	159300	1.5	26980	560	3	3	-	-			
3692	0.46	159300	1.3	26980	560	3	3	-	-			
4129	0.41	159300	1.1	26980	560	3	3	-	-			
4650	0.37	159300	1.0	26980	560	3	3	-	-			
5407	0.31	159300	0.87	26980	560	3	3	-	-			
6077	0.28	159300	0.77	26980	570	3	3	-	-			
6894	0.25	159300	0.68	26980	570	3	3	-	-			
7749	0.22	159300	0.61	26980	570	3	3	-	-			
10509	0.16	159300	0.45	26980	570	3	3	-	-			
11812	0.14	159300	0.40	26980	580	3	3	-	-			
14051	0.12	159300	0.33	26980	580	3	3	-	-			
15446	0.11	159300	0.30	26980	580	3	3	-	-			
17361	0.10	159300	0.27	26980	580	3	3	-	-			
279	6.1	159300	16.6	26980	790	3	2	-	-			
303	5.6	159300	15.3	26980	800	3	2	-	-			
335	5.1	159300	13.8	26980	790	3	2	-	-			
376	4.5	159300	12.3	26980	810	3	2	-	-			
432	3.9	159300	10.7	26980	860	3	2	-	-			
503	3.4	159300	9.2	26980	850	3	2	-	-			
579	2.9	159300	8.0	26980	890	3	2	-	-			
656	2.6	159300	7.1	26980	880	3	2	-	-			
760	2.2	159300	6.1	26980	850	3	2	-	-			
861	2.0	159300	5.4	26980	870	3	2	-	-			
999	1.7	159300	4.6	26980	890	3	2	-	-			
1123	1.5	159300	4.1	26980	900	3	2	-	-			
1279	1.3	159300	3.6	26980	900	3	2	-	-			
1438	1.2	159300	3.2	26980	910	3	2	-	-			
1670	1.0	159300	2.8	26980	940	3	2	-	-			
1877	0.91	159300	2.5	26980	940	3	2	-	-			
2085	0.82	159300	2.2	26980	940	3	2	-	-			
2333	0.73	159300	2.0	26980	940	3	2	-	-			


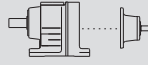
R167R97 AD.. , n_e = 1700 rpm 159300 lb-in

i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ (/R) [']			
						Lg	Sm				
2657	0.64	159300	1.7	26980	940	3	2	-	-	R167R97 AD4	
3099	0.55	159300	1.5	26980	960	3	3	-	-		
3692	0.46	159300	1.3	26980	960	3	3	-	-		
4129	0.41	159300	1.1	26980	960	3	3	-	-		
4650	0.37	159300	1.0	26980	960	3	3	-	-		
5407	0.31	159300	0.87	26980	970	3	3	-	-		
6077	0.28	159300	0.77	26980	970	3	3	-	-		
6894	0.25	159300	0.68	26980	970	3	3	-	-		
7749	0.22	159300	0.61	26980	970	3	3	-	-		
10509	0.16	159300	0.45	26980	980	3	3	-	-		
11812	0.14	159300	0.40	26980	980	3	3	-	-		
14051	0.12	159300	0.33	26980	980	3	3	-	-		
279	6.1	159300	16.6	26980	1460	3	2	-	-		R167R97 AD5
303	5.6	159300	15.3	26980	1470	3	2	-	-		
335	5.1	159300	13.8	26980	1460	3	2	-	-		
376	4.5	159300	12.3	26980	1480	3	2	-	-		
432	3.9	159300	10.7	26980	1520	3	2	-	-		
503	3.4	159300	9.2	26980	1520	3	2	-	-		
579	2.9	159300	8.0	26980	1560	3	2	-	-		
656	2.6	159300	7.1	26980	1550	3	2	-	-		
861	2.0	159300	5.4	26980	1540	3	2	-	-		
999	1.7	159300	4.6	26980	1550	3	2	-	-		
1123	1.5	159300	4.1	26980	1560	3	2	-	-		
1670	1.0	159300	2.8	26980	1600	3	2	-	-		
1877	0.91	159300	2.5	26980	1600	3	2	-	-		
2085	0.82	159300	2.2	26980	1610	3	2	-	-		
2333	0.73	159300	2.0	26980	1610	3	2	-	-		
3099	0.55	159300	1.5	26980	1630	3	3	-	-		
3692	0.46	159300	1.3	26980	1630	3	3	-	-		
4129	0.41	159300	1.1	26980	1630	3	3	-	-		
4650	0.37	159300	1.0	26980	1630	3	3	-	-		
6894	0.25	159300	0.68	26980	1640	3	3	-	-		
7749	0.22	159300	0.61	26980	1640	3	3	-	-		
279	6.1	159300	16.6	26980	2040	3	2	-	-	R167R97 AD6	
303	5.6	159300	15.3	26980	2060	3	2	-	-		
335	5.1	159300	13.8	26980	2040	3	2	-	-		
376	4.5	159300	12.3	26980	2060	3	2	-	-		
432	3.9	159300	10.7	26980	2110	3	2	-	-		
503	3.4	159300	9.2	26980	2100	3	2	-	-		
579	2.9	159300	8.0	26980	2140	3	2	-	-		
656	2.6	159300	7.1	26980	2130	3	2	-	-		
1670	1.0	159300	2.8	26980	2180	3	2	-	-		
1877	0.91	159300	2.5	26980	2180	3	2	-	-		
3099	0.55	159300	1.5	26980	2200	3	3	-	-		
3692	0.46	159300	1.3	26980	2200	3	3	-	-		
6894	0.25	159300	0.68	26980	2210	3	3	-	-		
7749	0.22	159300	0.61	26980	2210	3	3	-	-		



Weight [lbs]	Stages		AD3	AD4	AD5	AD6
	Large	Small				
R167R97	3	2	1653	1665	1701	1731
	3	3	1660	1671	1708	1738

RF167: +20 lbs / RM167: +450 lbs

8.2.25 R167R107

R167R107 AD.. , n _e = 1700 rpm										159300 lb-in	
i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{RA} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']			
						Lg	Sm				
229	7.4	159300	20	26980	340	3	2	-	-		
264	6.4	159300	17.3	26980	310	2	2	-	-		
270	6.3	159300	17.2	26980	360	3	2	-	-		
291	5.8	159300	15.7	26980	320	2	2	-	-		
328	5.2	159300	13.9	26980	330	2	2	-	-		
349	4.9	159300	13.3	26980	430	3	2	-	-		
361	4.7	159300	12.6	26980	340	2	2	-	-		
399	4.3	159300	11.4	26980	350	2	2	-	-		
446	3.8	159300	10.2	26980	360	2	2	-	-		
511	3.3	159300	9.1	26980	460	2	3	-	-		
585	2.9	159300	7.9	26980	470	2	3	-	-		
690	2.5	159300	6.7	26980	480	2	3	-	-		
763	2.2	159300	6.1	26980	480	2	3	-	-		
860	2.0	159300	5.4	26980	490	2	3	-	-		
950	1.8	159300	4.9	26980	490	2	3	-	-		
1111	1.5	159300	4.2	26980	520	2	3	-	-		
1229	1.4	159300	3.8	26980	520	2	3	-	-		
1342	1.3	159300	3.5	26980	530	2	3	-	-		
1485	1.1	159300	3.1	26980	530	2	3	-	-		
1674	1.0	159300	2.8	26980	530	2	3	-	-		
1849	0.92	159300	2.5	26980	540	2	3	-	-		
2066	0.82	159300	2.2	26980	530	2	3	-	-		
2298	0.74	159300	2.0	26980	540	2	3	-	-		
2436	0.70	159300	1.9	26980	530	2	3	-	-		
2757	0.62	159300	1.7	26980	530	2	3	-	-		
3330	0.51	159300	1.4	26980	540	2	3	-	-		
3637	0.47	159300	1.3	26980	540	2	3	-	-		
168	10	159300	27	26980	690	2	2	-	-		
169	10	159300	27	26980	730	3	2	-	-		
198	8.6	159300	23	26980	710	2	2	-	-		
200	8.5	159300	23	26980	750	3	2	-	-		
227	7.5	159300	20	26980	730	2	2	-	-		
229	7.4	159300	20	26980	770	3	2	-	-		
264	6.4	159300	17.3	26980	740	2	2	-	-		
270	6.3	159300	17.2	26980	780	3	2	-	-		
291	5.8	159300	15.7	26980	750	2	2	-	-		
295	5.8	159300	15.7	26980	840	3	2	-	-		
328	5.2	159300	13.9	26980	760	2	2	-	-		
349	4.9	159300	13.3	26980	850	3	2	-	-		
361	4.7	159300	12.6	26980	760	2	2	-	-		
399	4.3	159300	11.4	26980	780	2	2	-	-		
446	3.8	159300	10.2	26980	780	2	2	-	-		
511	3.3	159300	9.1	26980	880	2	3	-	-		
585	2.9	159300	7.9	26980	880	2	3	-	-		
690	2.5	159300	6.7	26980	890	2	3	-	-		
763	2.2	159300	6.1	26980	890	2	3	-	-		
860	2.0	159300	5.4	26980	900	2	3	-	-		
950	1.8	159300	4.9	26980	900	2	3	-	-		
1111	1.5	159300	4.2	26980	930	2	3	-	-		
1229	1.4	159300	3.8	26980	930	2	3	-	-		
1342	1.3	159300	3.5	26980	930	2	3	-	-		
1485	1.1	159300	3.1	26980	940	2	3	-	-		
1674	1.0	159300	2.8	26980	940	2	3	-	-		
1849	0.92	159300	2.5	26980	940	2	3	-	-		
2066	0.82	159300	2.2	26980	940	2	3	-	-		
2298	0.74	159300	2.0	26980	940	2	3	-	-		
2436	0.70	159300	1.9	26980	940	2	3	-	-		

R167R107 AD.. , n_e = 1700 rpm 159300 lb-in

i [ratio]	n _a [rpm]	T _a max [lb-in]	P _e [HP]	F _{Ra} ¹⁾ [lb]	F _{Re} [lb]	Stages		φ _(/R) [']		
						Lg	Sm			
168	10	159300	27	26980	1370	2	2	-	-	R167R107 AD5
169	10	159300	27	26980	1410	3	2	-	-	
198	8.6	159300	23	26980	1390	2	2	-	-	
200	8.5	159300	23	26980	1430	3	2	-	-	
227	7.5	159300	20	26980	1400	2	2	-	-	
229	7.4	159300	20	26980	1440	3	2	-	-	
264	6.4	159300	17.3	26980	1410	2	2	-	-	
270	6.3	159300	17.2	26980	1450	3	2	-	-	
291	5.8	159300	15.7	26980	1420	2	2	-	-	
295	5.8	159300	15.7	26980	1510	3	2	-	-	
328	5.2	159300	13.9	26980	1430	2	2	-	-	
349	4.9	159300	13.3	26980	1520	3	2	-	-	
361	4.7	159300	12.6	26980	1430	2	2	-	-	
399	4.3	159300	11.4	26980	1440	2	2	-	-	
446	3.8	159300	10.2	26980	1450	2	2	-	-	
511	3.3	159300	9.1	26980	1540	2	3	-	-	
585	2.9	159300	7.9	26980	1550	2	3	-	-	
690	2.5	159300	6.7	26980	1550	2	3	-	-	
763	2.2	159300	6.1	26980	1560	2	3	-	-	
860	2.0	159300	5.4	26980	1560	2	3	-	-	
950	1.8	159300	4.9	26980	1560	2	3	-	-	
1111	1.5	159300	4.2	26980	1590	2	3	-	-	
1229	1.4	159300	3.8	26980	1590	2	3	-	-	
1342	1.3	159300	3.5	26980	1600	2	3	-	-	
1485	1.1	159300	3.1	26980	1600	2	3	-	-	
1674	1.0	159300	2.8	26980	1600	2	3	-	-	
1849	0.92	159300	2.5	26980	1600	2	3	-	-	
2298	0.74	159300	2.0	26980	1610	2	3	-	-	
168	10	159300	27	26980	1960	2	2	-	-	R167R107 AD6
169	10	159300	27	26980	2000	3	2	-	-	
198	8.6	159300	23	26980	1980	2	2	-	-	
200	8.5	159300	23	26980	2020	3	2	-	-	
227	7.5	159300	20	26980	1990	2	2	-	-	
229	7.4	159300	20	26980	2030	3	2	-	-	
264	6.4	159300	17.3	26980	2000	2	2	-	-	
270	6.3	159300	17.2	26980	2040	3	2	-	-	
291	5.8	159300	15.7	26980	2010	2	2	-	-	
295	5.8	159300	15.7	26980	2090	3	2	-	-	
328	5.2	159300	13.9	26980	2010	2	2	-	-	
349	4.9	159300	13.3	26980	2100	3	2	-	-	
361	4.7	159300	12.6	26980	2020	2	2	-	-	
511	3.3	159300	9.1	26980	2120	2	3	-	-	
585	2.9	159300	7.9	26980	2130	2	3	-	-	
690	2.5	159300	6.7	26980	2140	2	3	-	-	
763	2.2	159300	6.1	26980	2140	2	3	-	-	
860	2.0	159300	5.4	26980	2140	2	3	-	-	
950	1.8	159300	4.9	26980	2140	2	3	-	-	
1111	1.5	159300	4.2	26980	2170	2	3	-	-	
1229	1.4	159300	3.8	26980	2170	2	3	-	-	
1342	1.3	159300	3.5	26980	2180	2	3	-	-	
1485	1.1	159300	3.1	26980	2180	2	3	-	-	
1674	1.0	159300	2.8	26980	2180	2	3	-	-	
1849	0.92	159300	2.5	26980	2180	2	3	-	-	

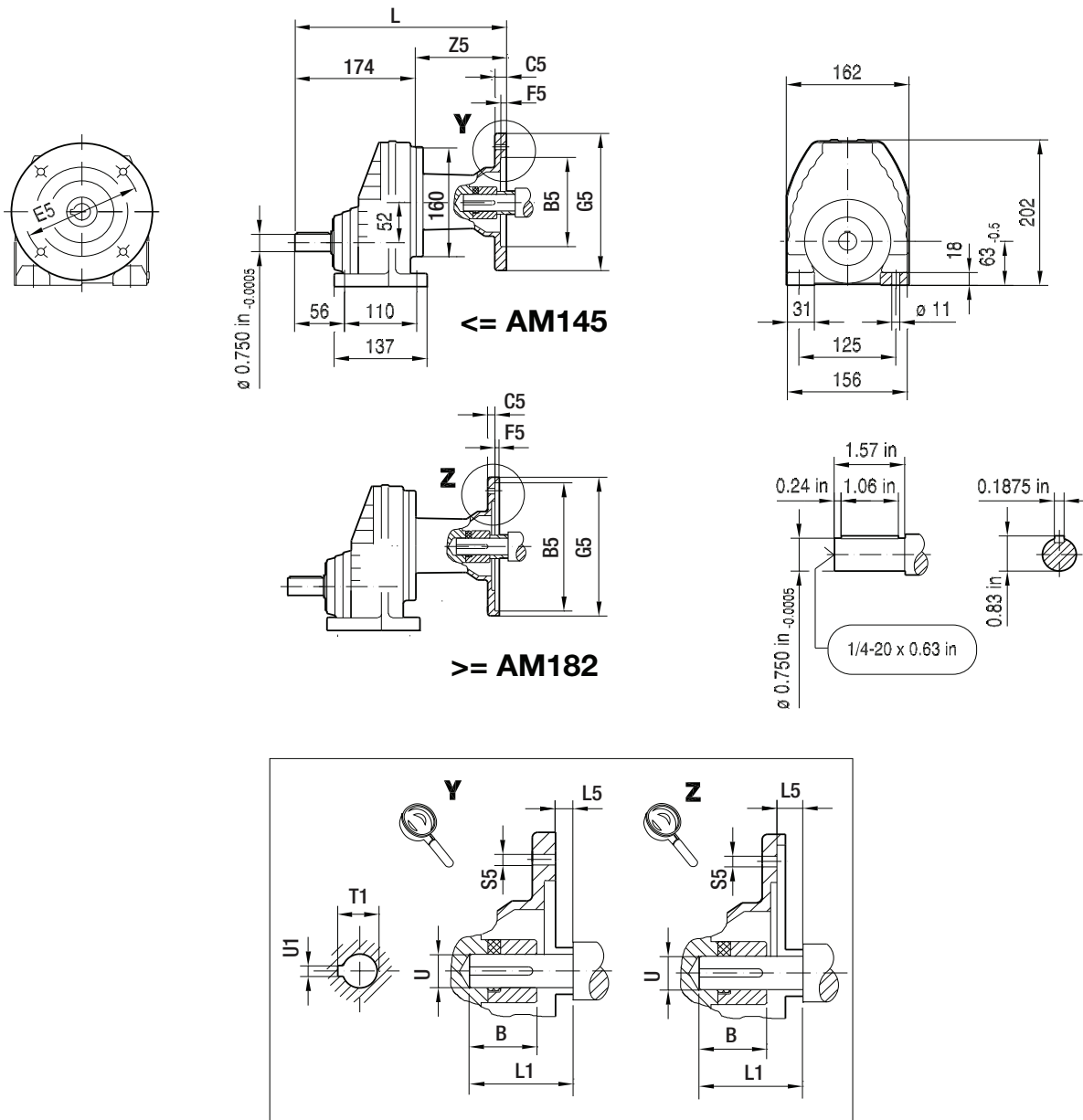
Weight [lbs]	Stages		AD3	AD4	AD5	AD6
	Large	Small				
R167R107	2	2	1744	1758	1788	1818
	2	3	1758	1772	1802	1832
	3	2	1758	1772	1802	1832

RF167: +20 lbs / RM167: +450 lbs

8.3 R/RX.. AM.. [NEMA dimensions]

01 009 00 11

RX57..

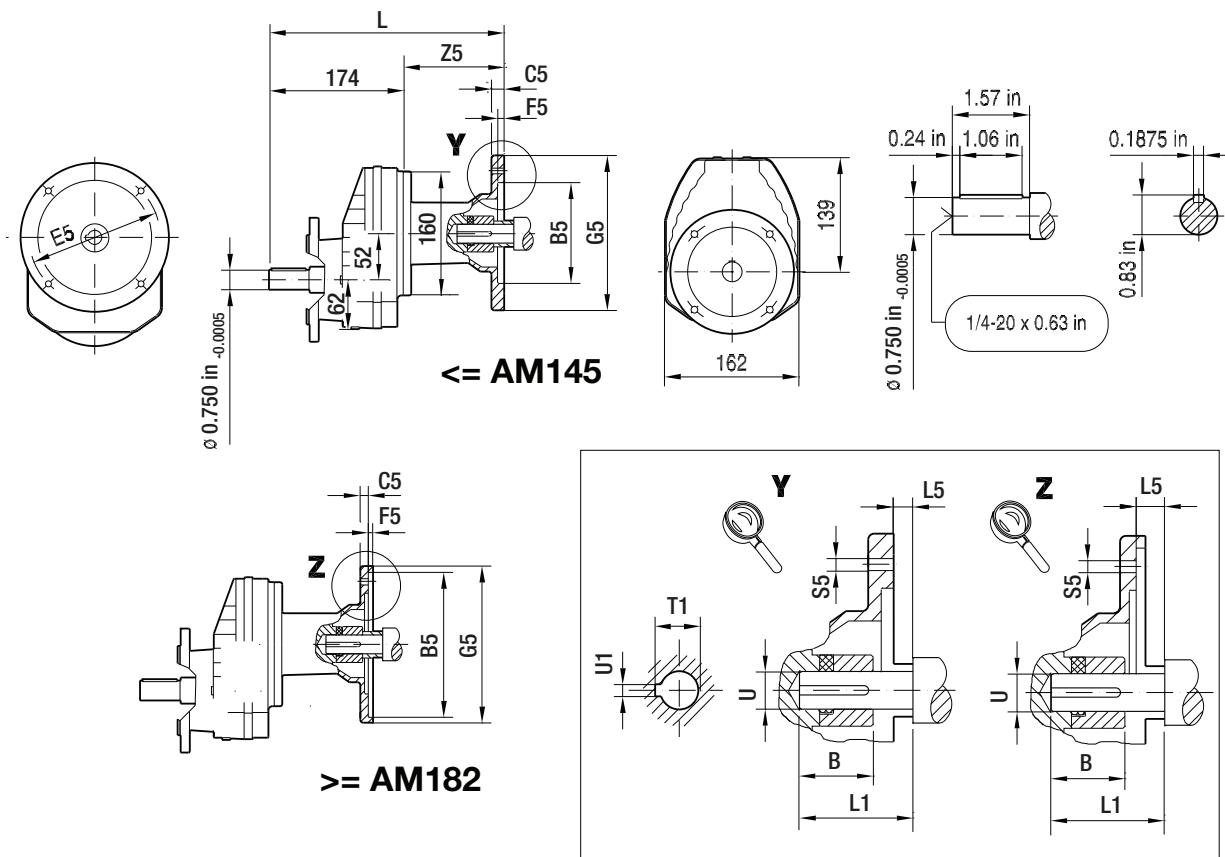


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	261	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	285	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	285	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	322	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	322	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	375	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

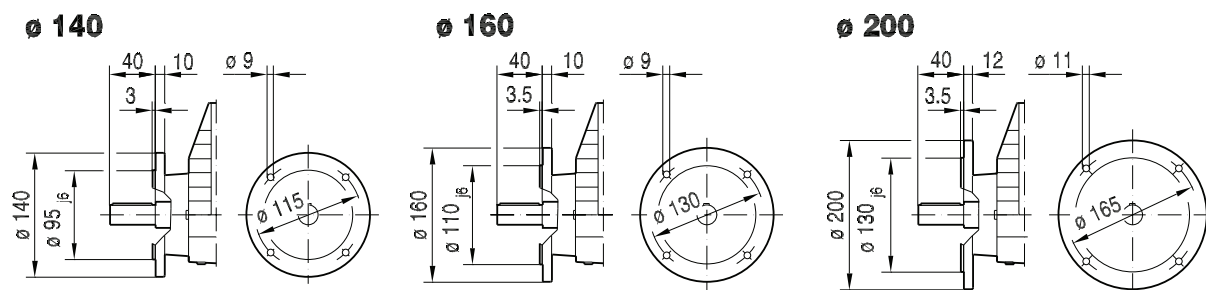
Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 010 00 11

RXF57..



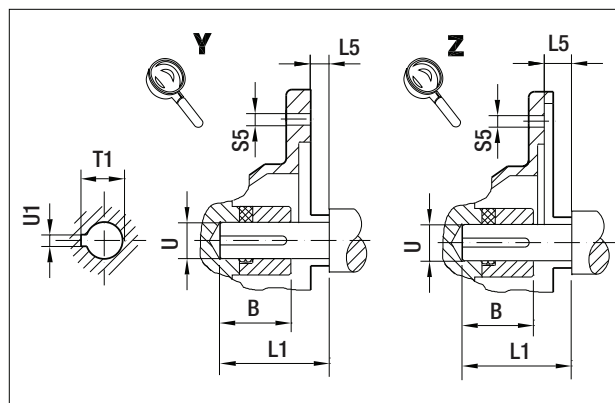
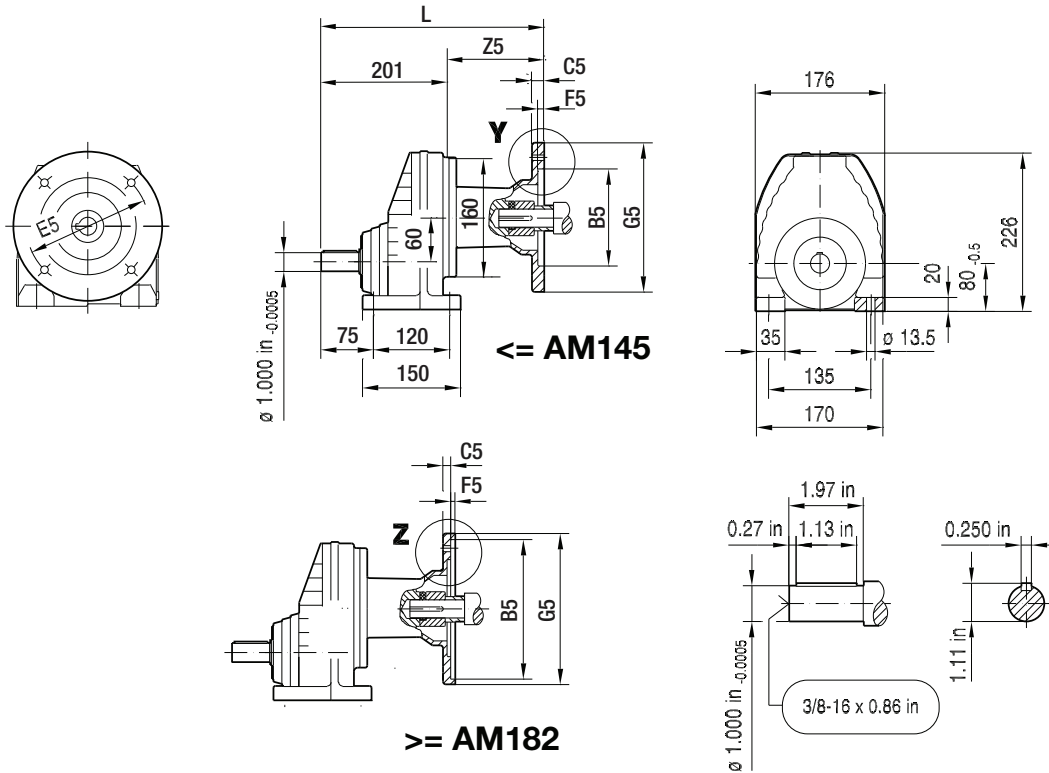
8



(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	261	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	285	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	285	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	322	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	322	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	375	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

RX67..

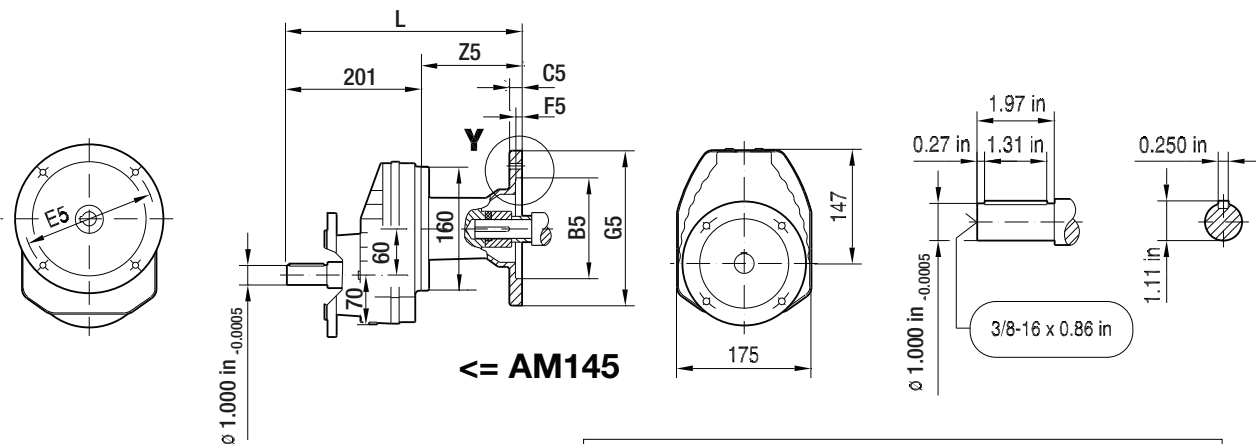


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	288	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	312	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	312	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	349	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	349	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	402	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

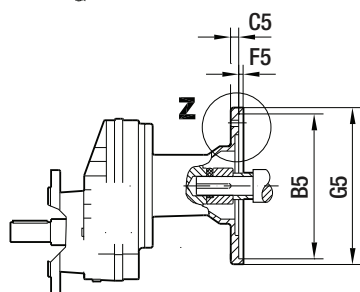
Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 012 00 11

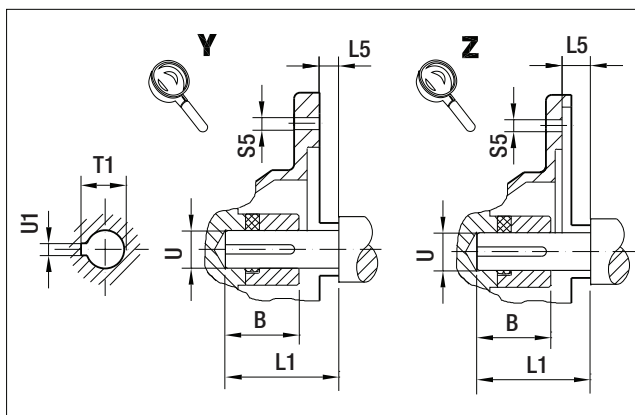
RXF67..



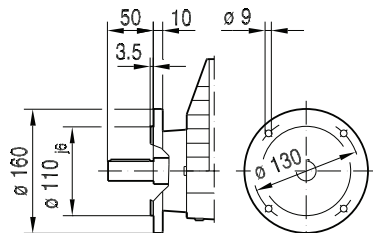
≤ AM145



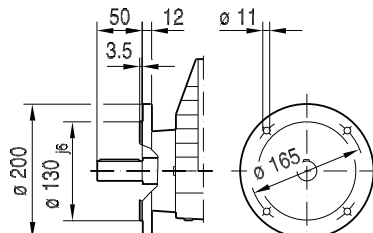
≥ AM182



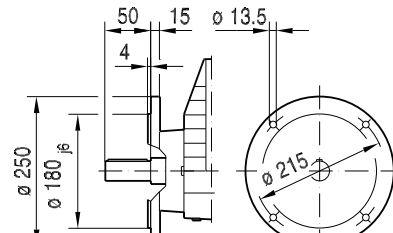
∅ 160



∅ 200



∅ 250

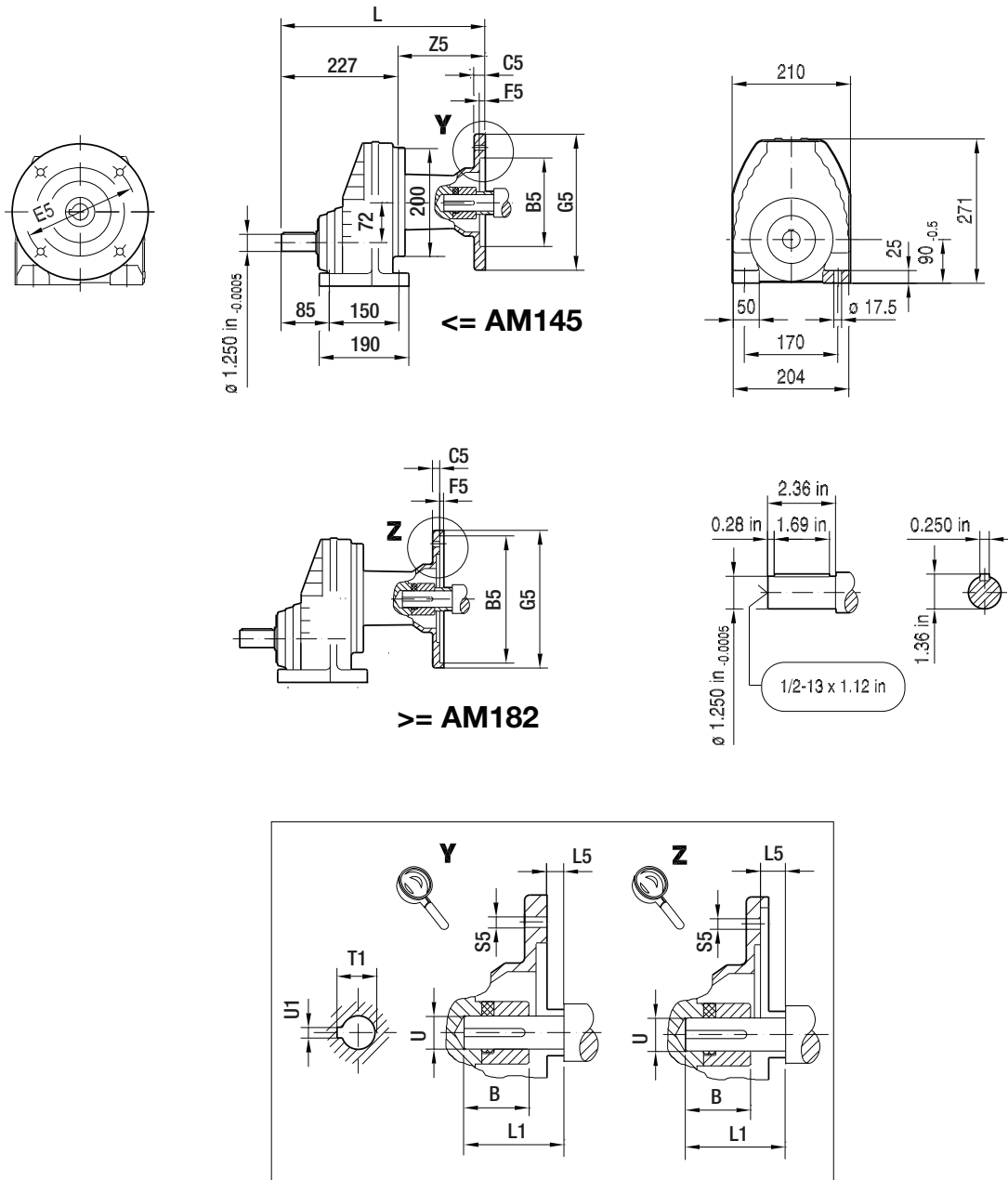


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	288	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	312	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	312	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	349	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	349	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	402	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 013 00 11

RX77..

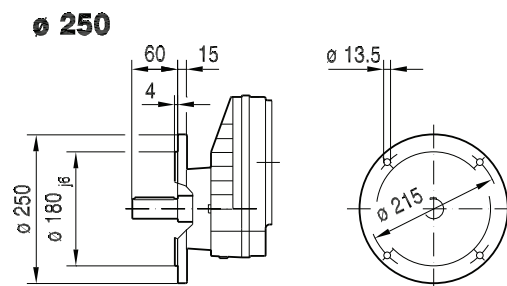
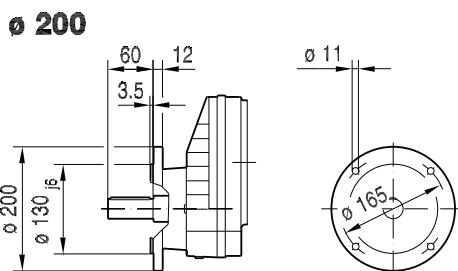
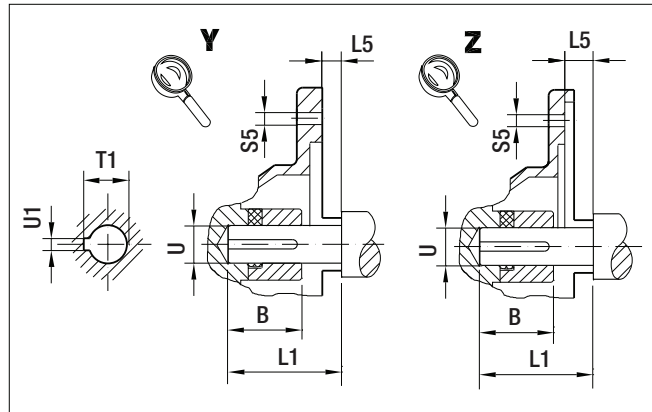
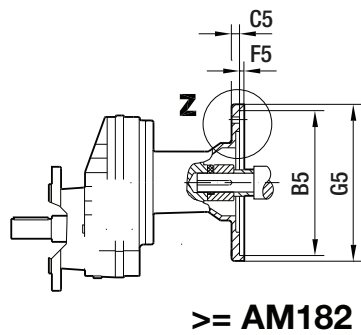
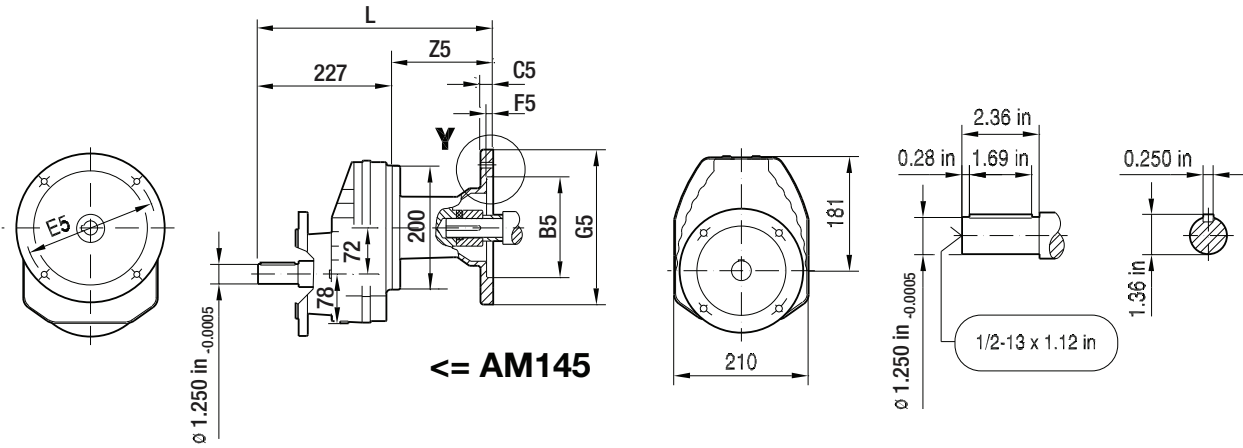


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	308	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	81
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	331	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	331	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	367	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	367	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	416	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	188.5

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 014 00 11

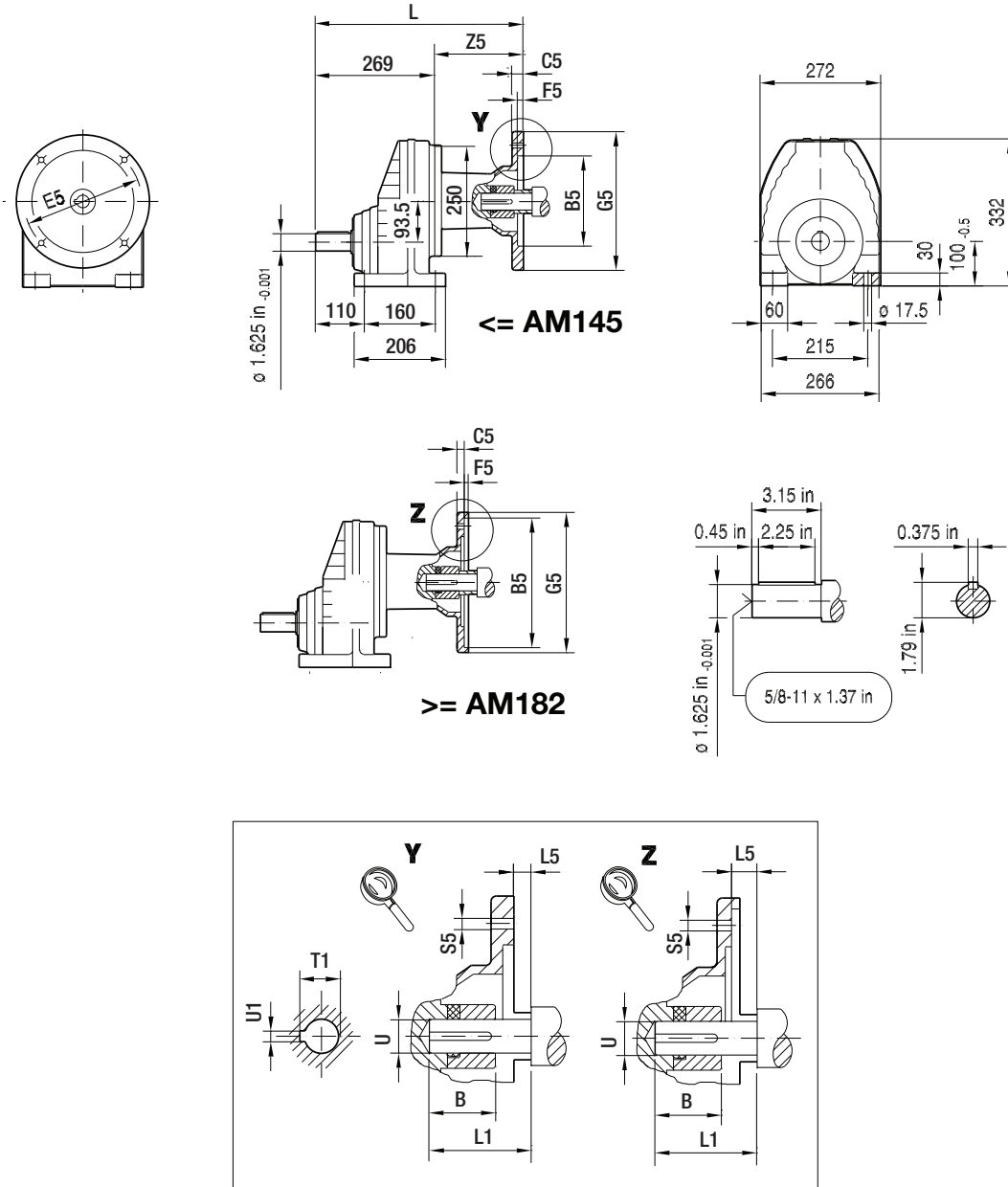
RXF77..



(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	308	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	81
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	331	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	331	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	367	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	367	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	416	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	188.5

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

RX87..

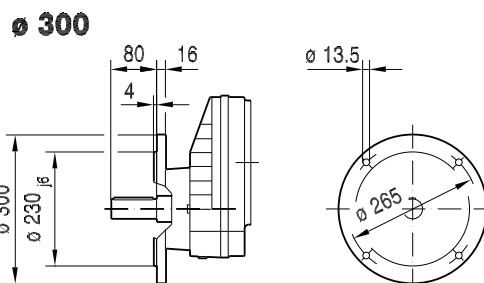
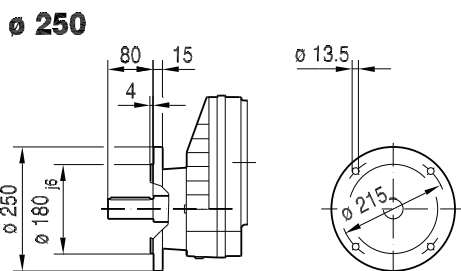
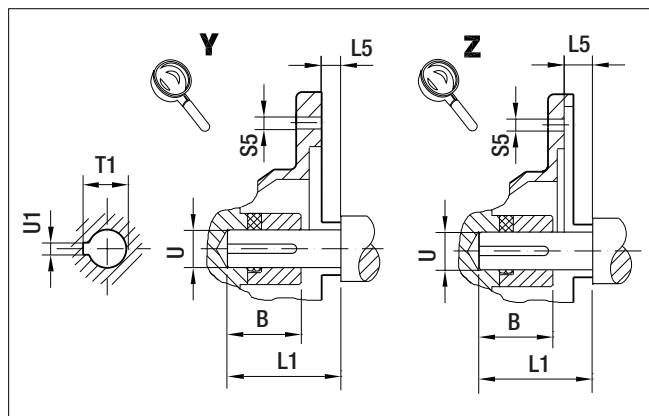
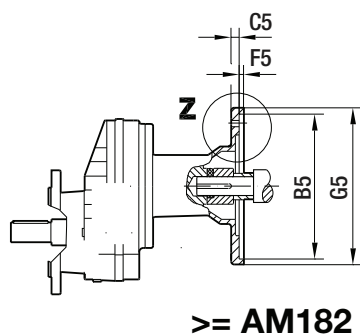
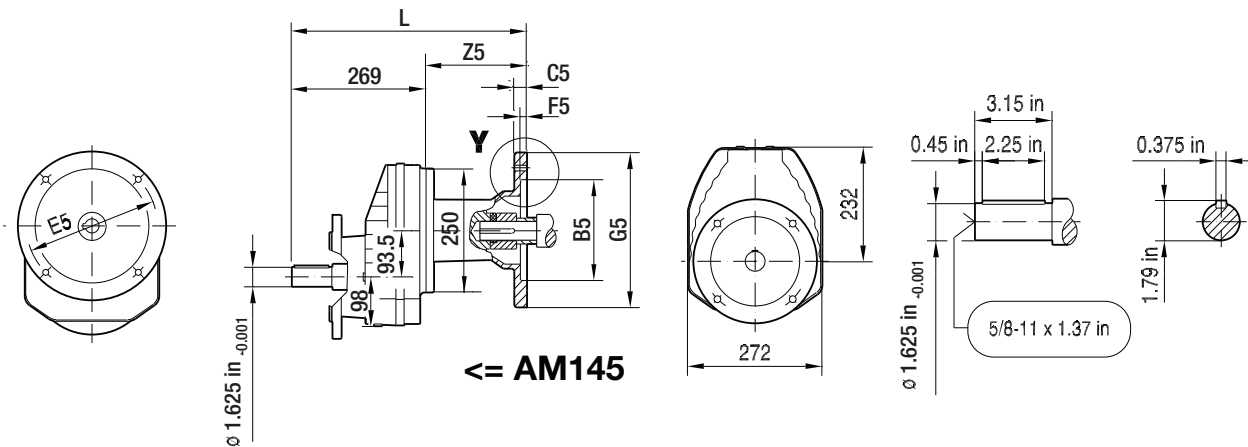



(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	368	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	368	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	404	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	404	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	453	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	183.5
AM254/256	3.65 in	8.50 in	14	7.25 in	5	228	503	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	234
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	510	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	241

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 016 00 11

RXF87..

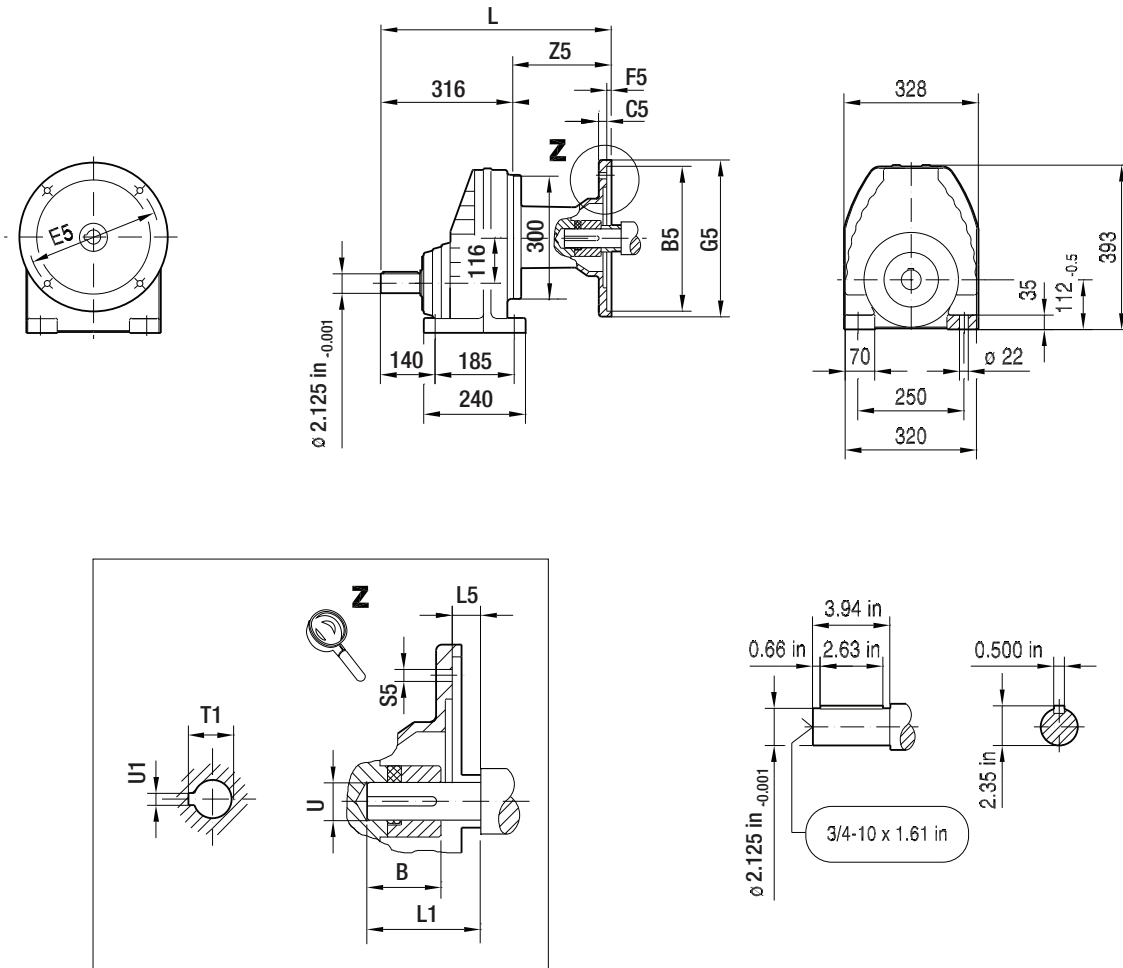


(→  132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	368	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	368	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	404	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	404	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	453	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	183.5
AM254/256	3.65 in	8.50 in	14	7.25 in	5	228	503	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	234
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	510	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	241

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 017 00 11

RX97..

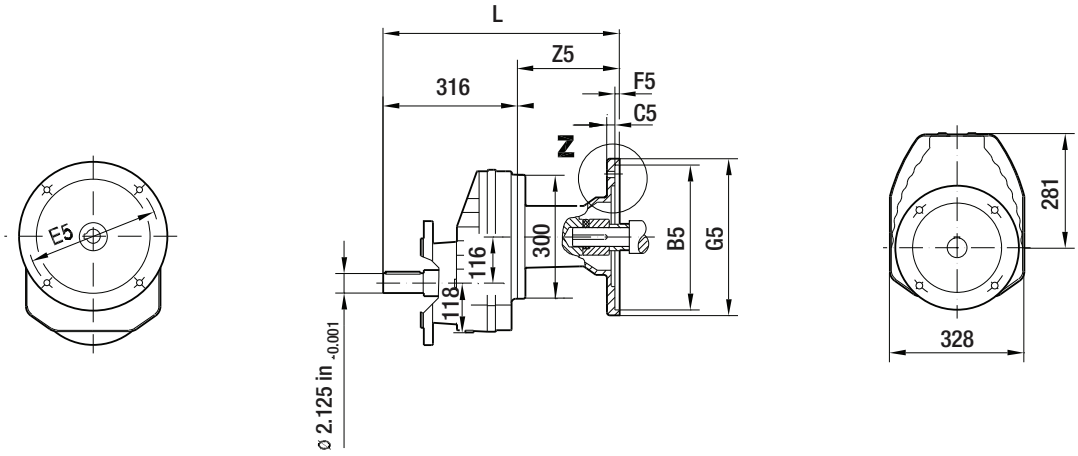


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	446	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	129.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	446	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	129.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	495	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	178.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	545	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	229
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	552	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	236
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	612	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	296
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	612	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	296

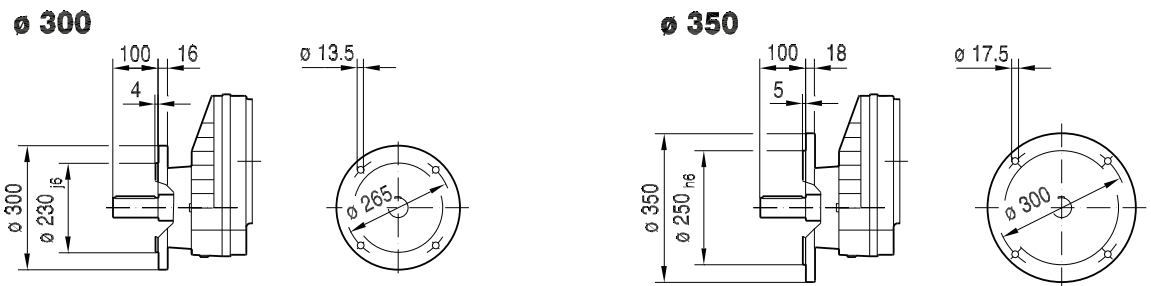
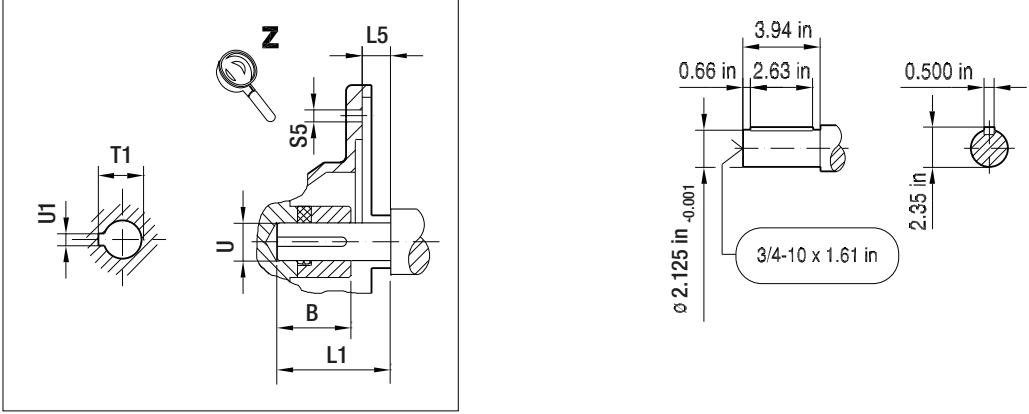
Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 018 00 11

RXF97..



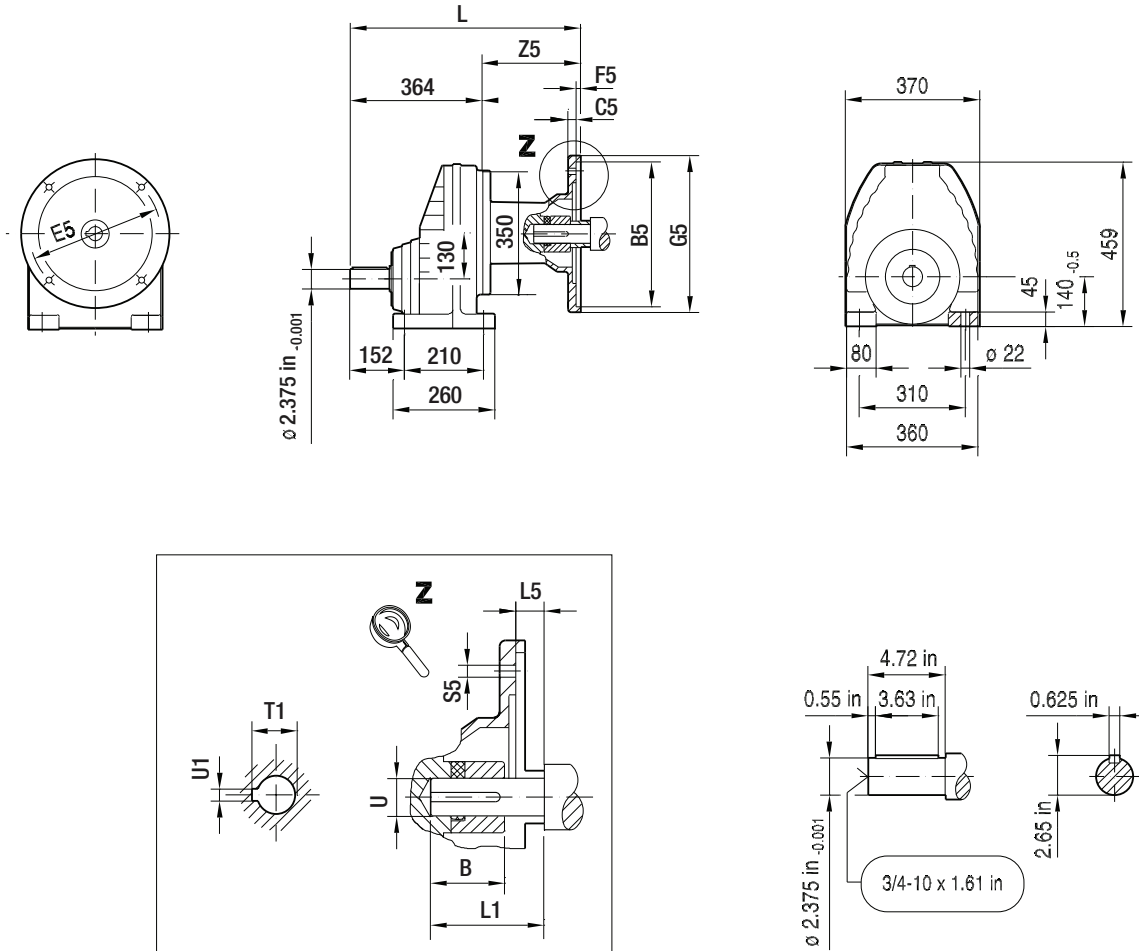
8



(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	446	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	129.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	446	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	129.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	495	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	178.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	545	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	229
AM284/286	4.00 in	10.5 in	15	9.00 in	5	286	552	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	236
AM324/326	3.88 in	12.5 in	17	11.0 in	5	356	612	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	296
AM364/365	4.51 in	12.5 in	17	11.0 in	5	356	612	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	296

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

RX107..

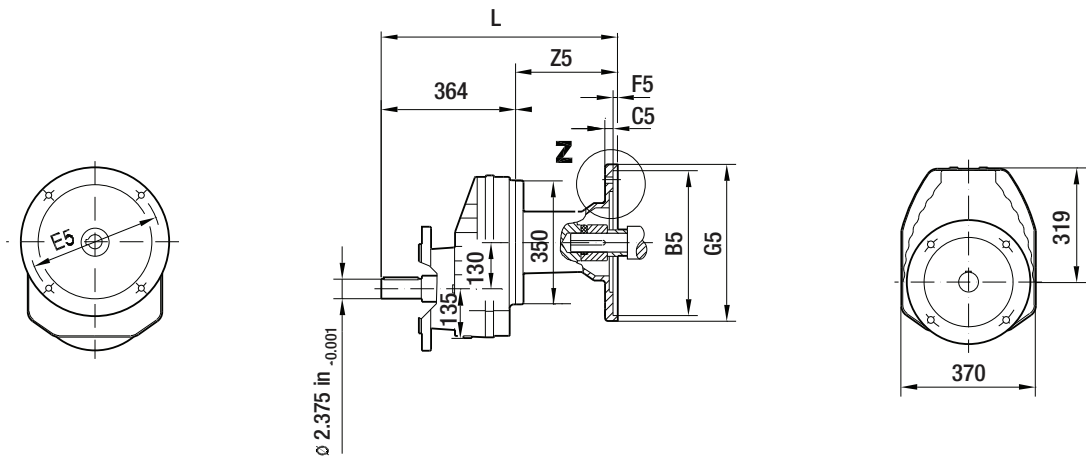


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	488	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	123.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	488	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	123.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	537	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	172.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	587	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	223
AM284/286	4.00 in	10.5 in	15	9.00 in	5	286	594	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	230
AM324/326	3.88 in	12.5 in	17	11.0 in	5	356	654	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	290
AM364/365	4.51 in	12.5 in	17	11.0 in	5	356	654	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	290

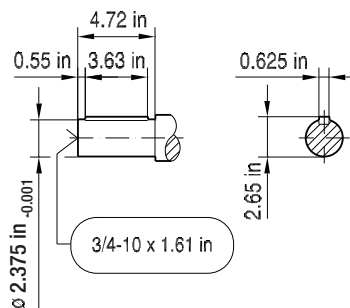
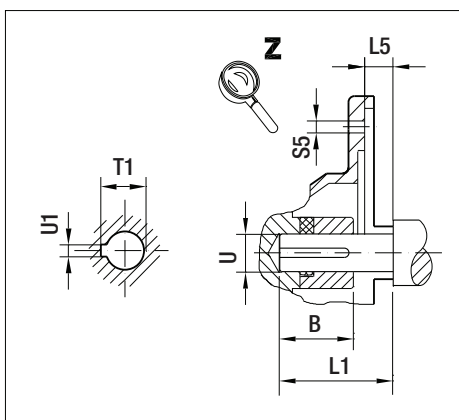
Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 020 00 11

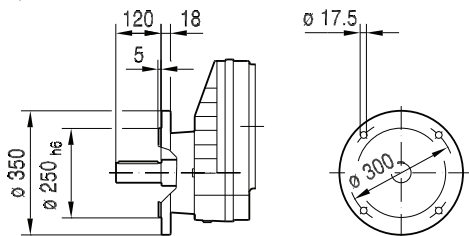
RXF107..



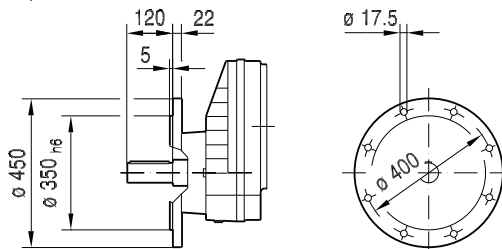
8




ø 350



ø 450

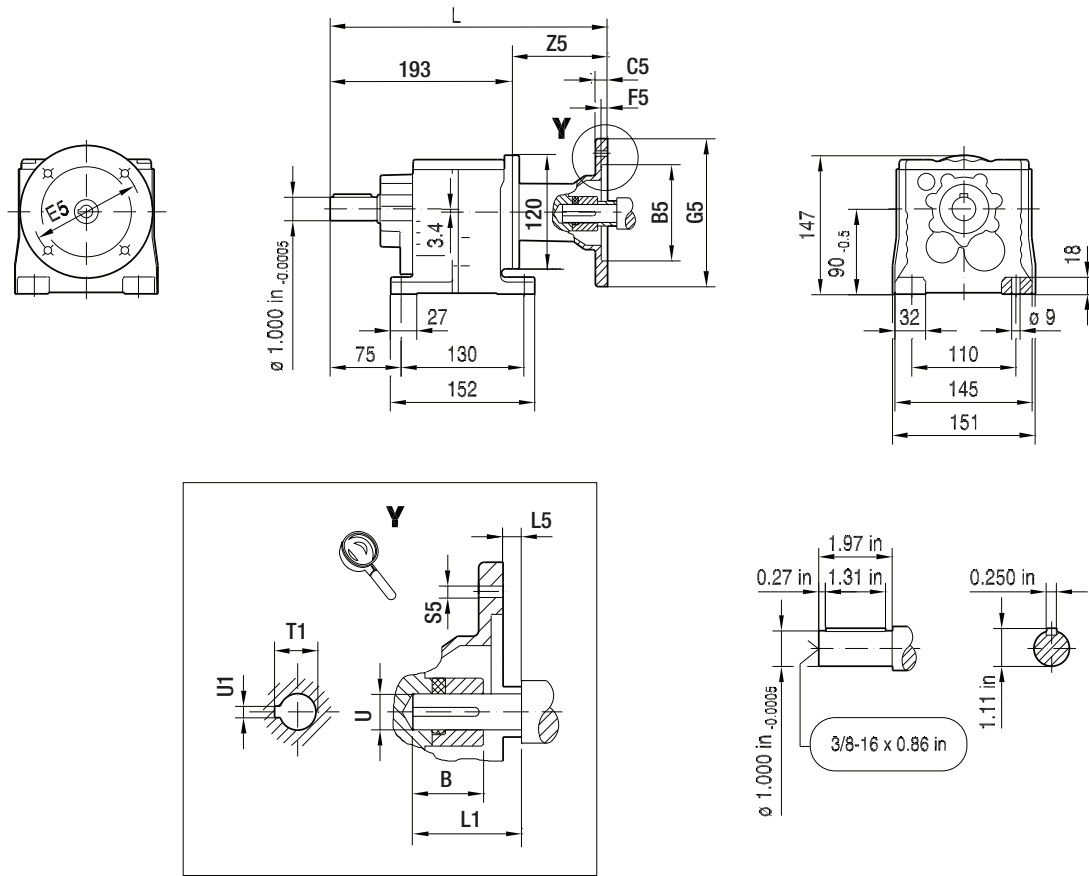


(→  132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	488	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	123.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	488	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	123.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	537	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	172.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	587	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	223
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	594	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	230
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	654	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	290
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	654	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	290

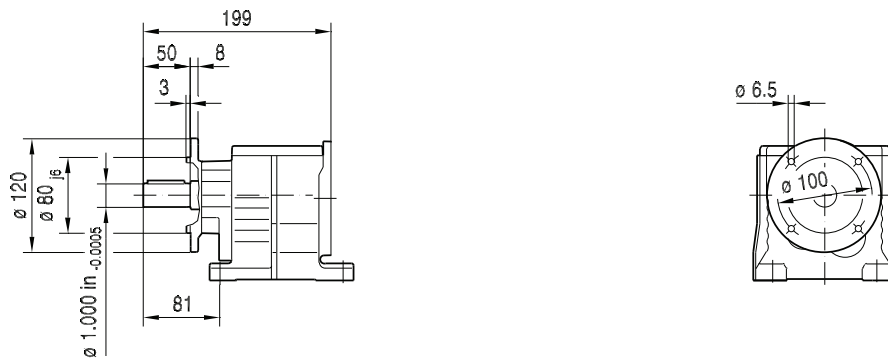
Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 021 00 11

R27..



R27F..

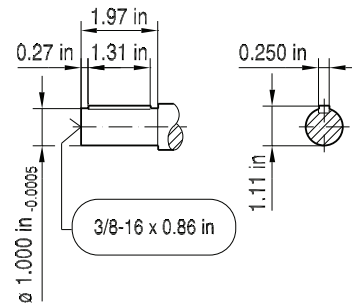
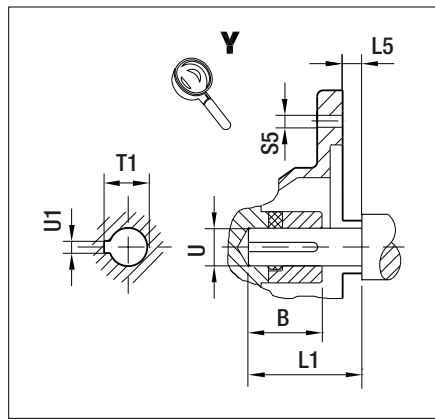
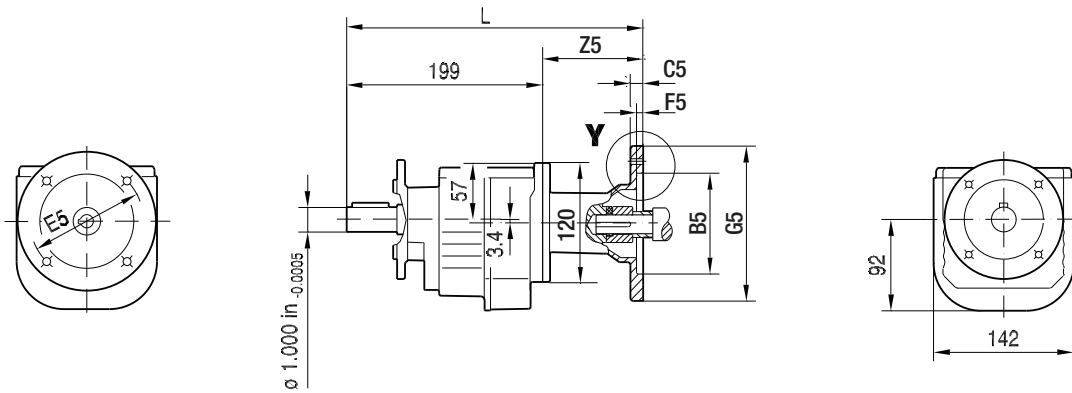


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	287	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	93.5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	310	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	310	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117

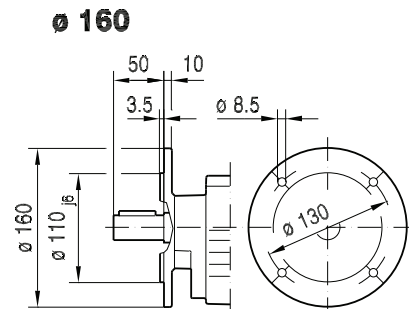
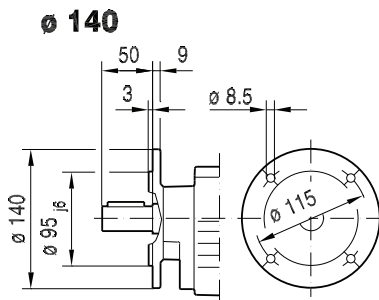
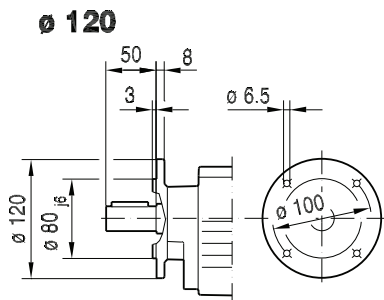
Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 022 00 11

RF27..



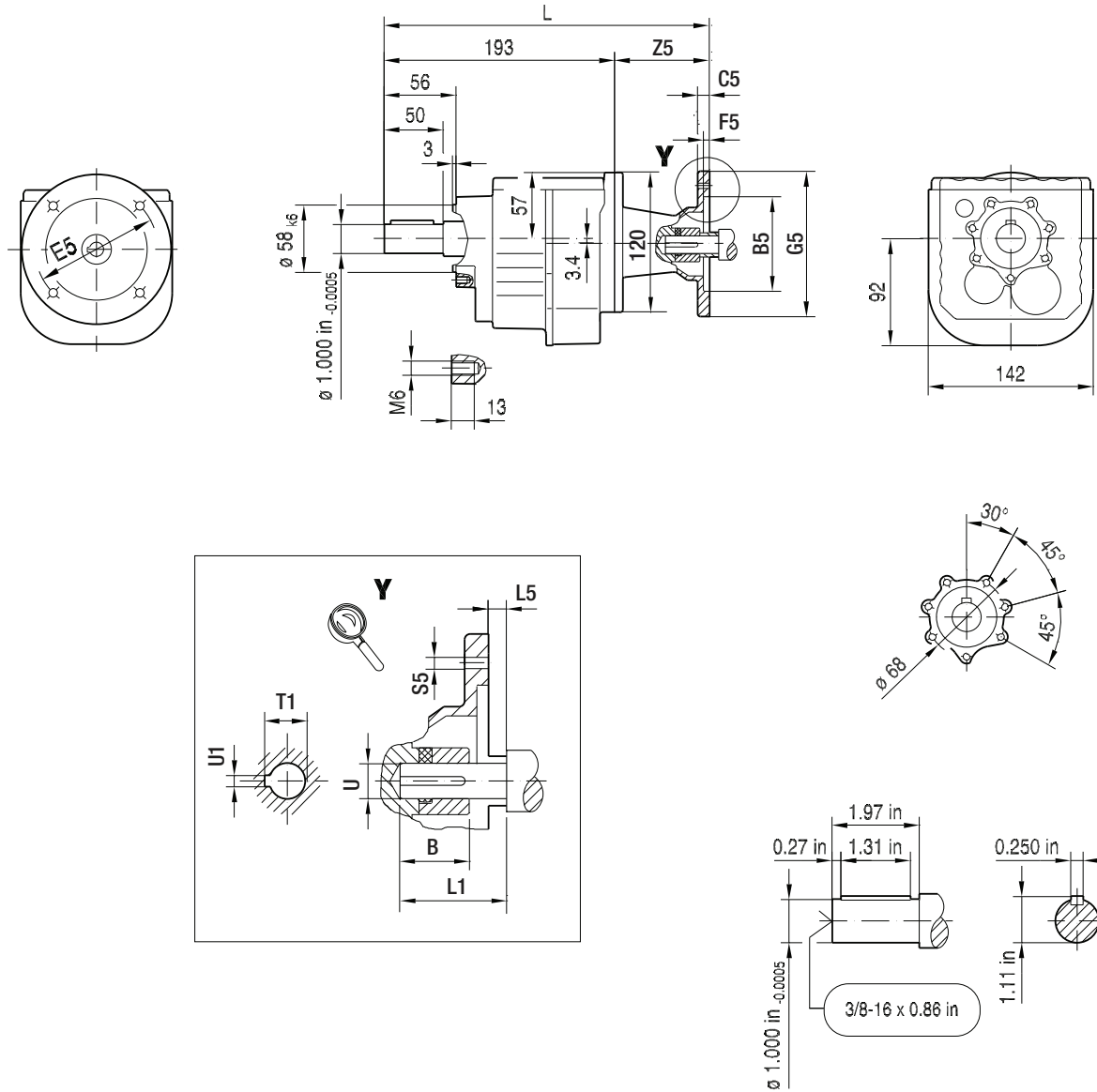
8



(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	293	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	93.5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	316	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	316	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

RZ27..

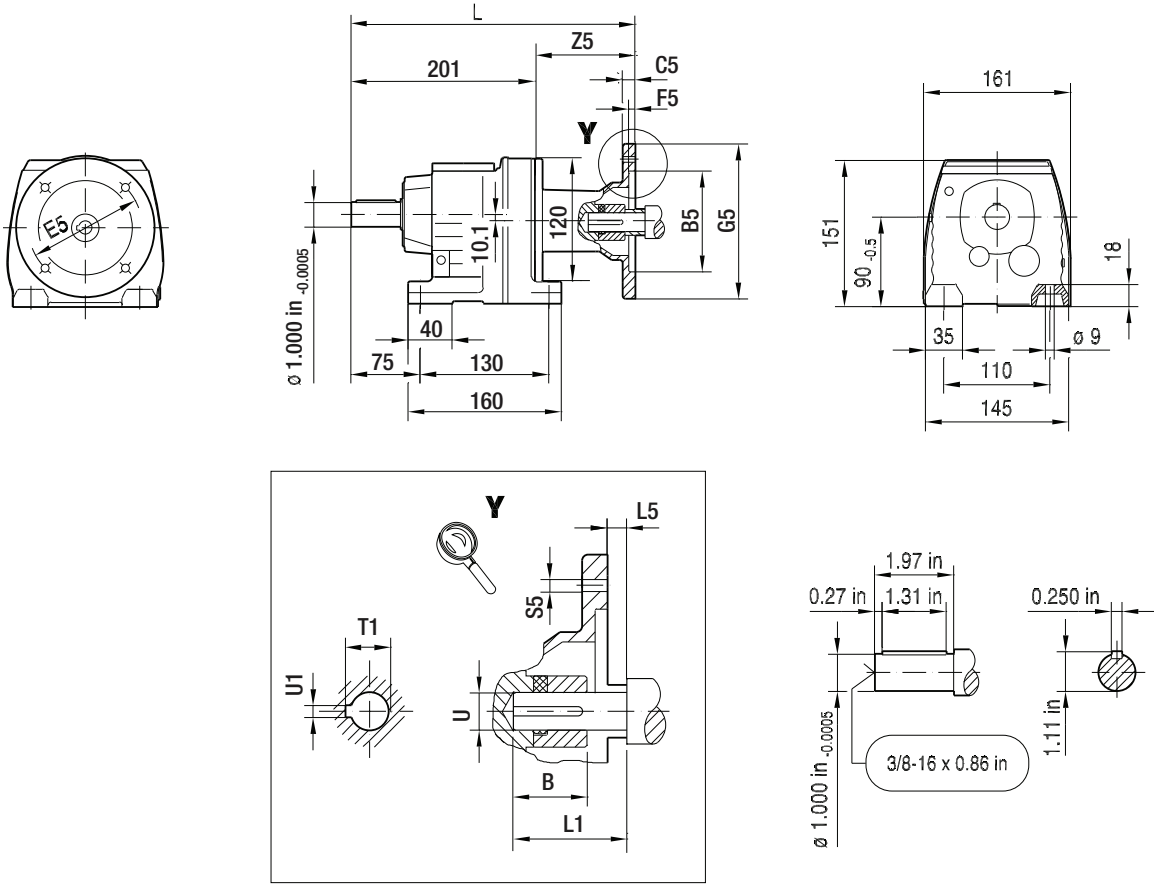


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	287	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	93.5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	310	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	310	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

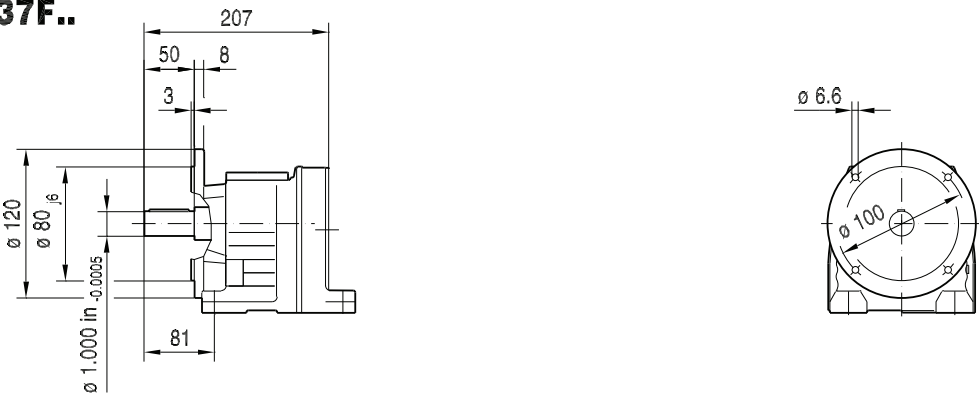
01 024 00 11

R37..



8

R37F..

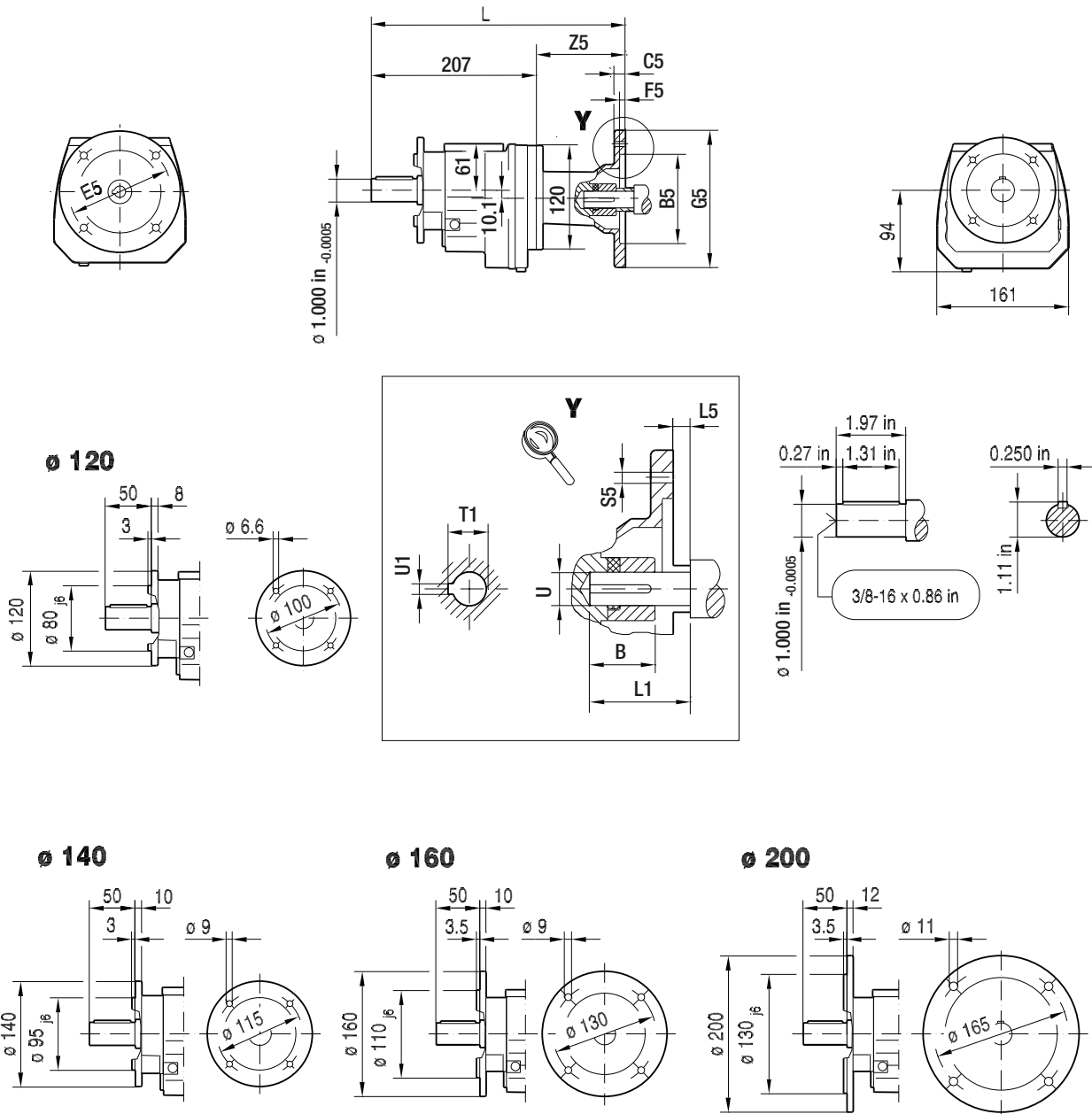


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	295	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	93.5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	318	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	318	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 025 00 11

RF37..

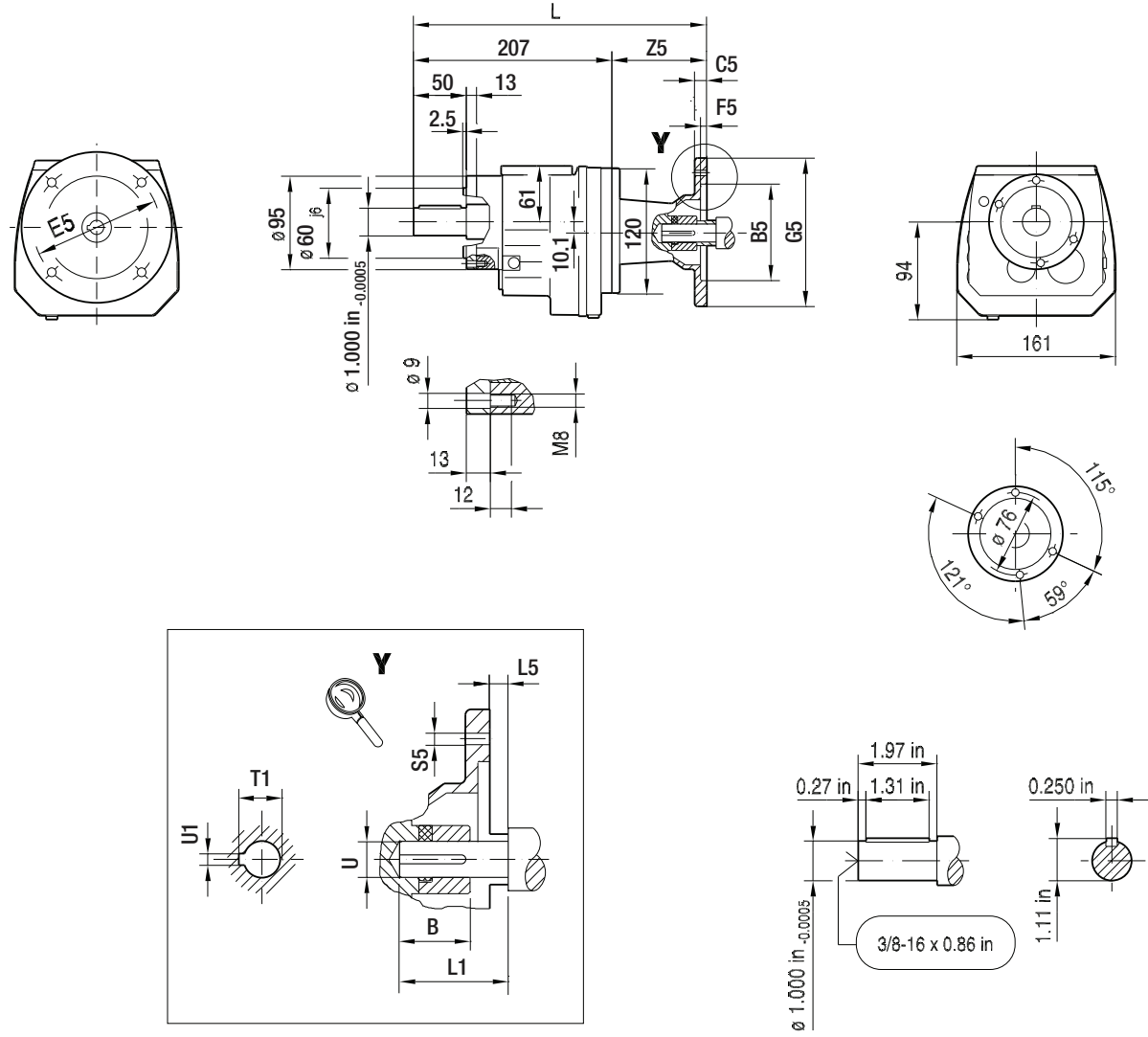


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	301	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	93.5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	324	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	324	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117

Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

RZ37..

01 026 00 11



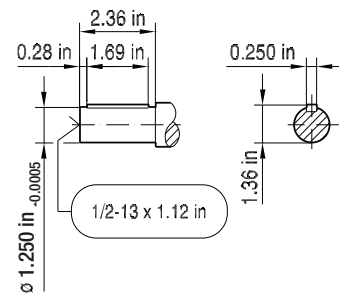
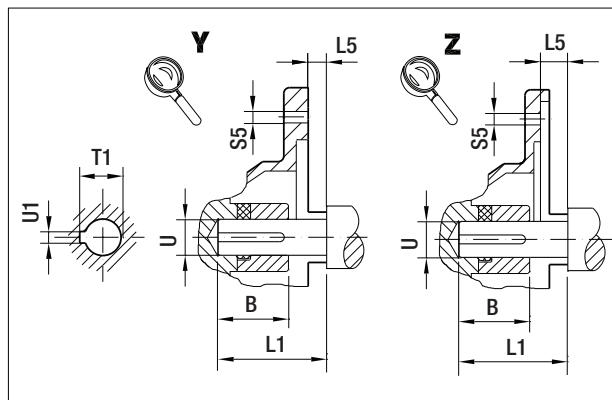
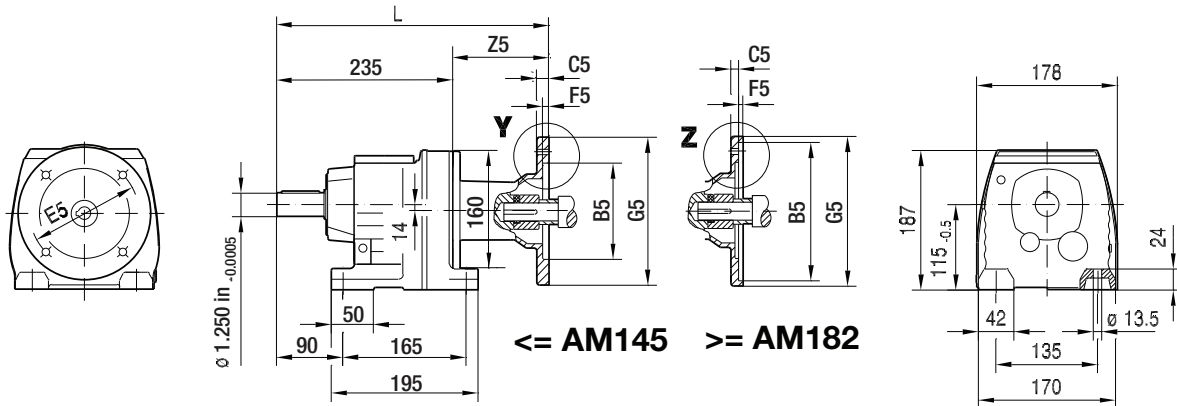
8

(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	301	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	93.5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	324	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	324	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	117

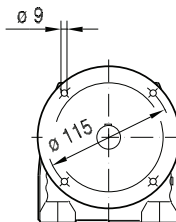
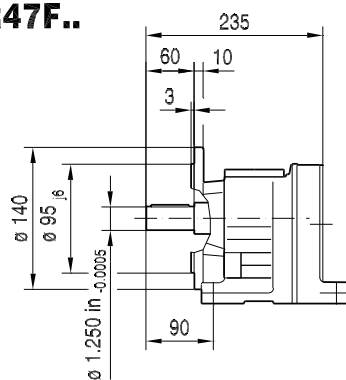
Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274.

01 027 00 11

R47..



R47F..

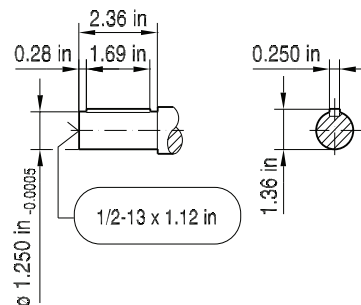
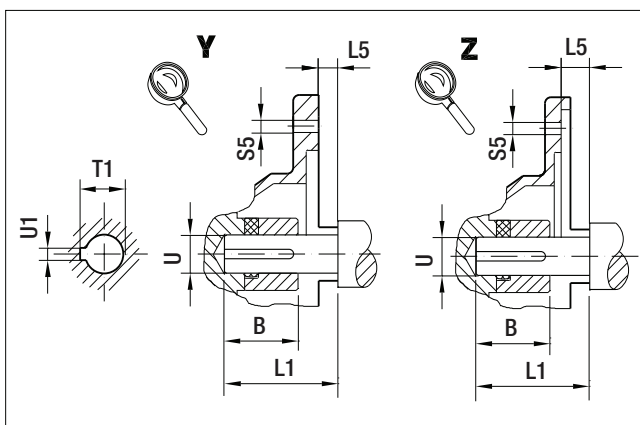
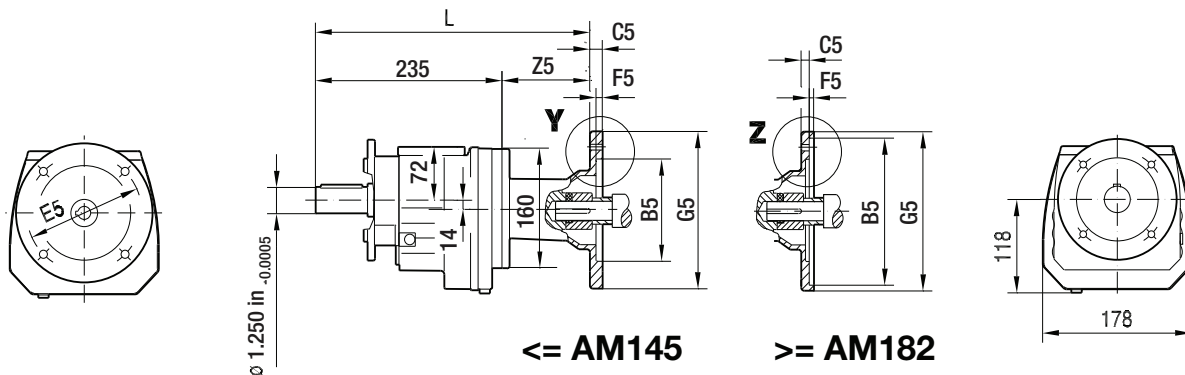


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	322	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	346	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	346	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	383	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	383	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	436	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

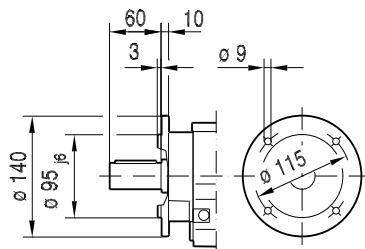
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R47R37) see page 269.

01 028 00 11

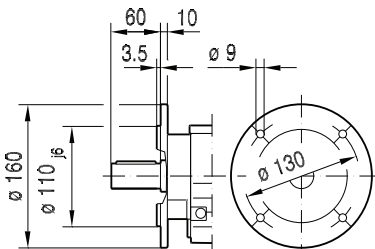
RF47..



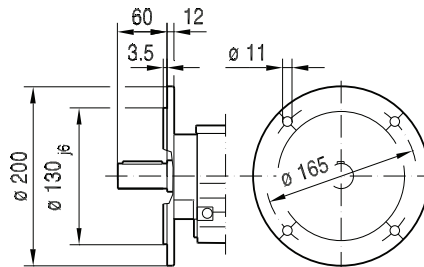
ø 140



ø 160



ø 200

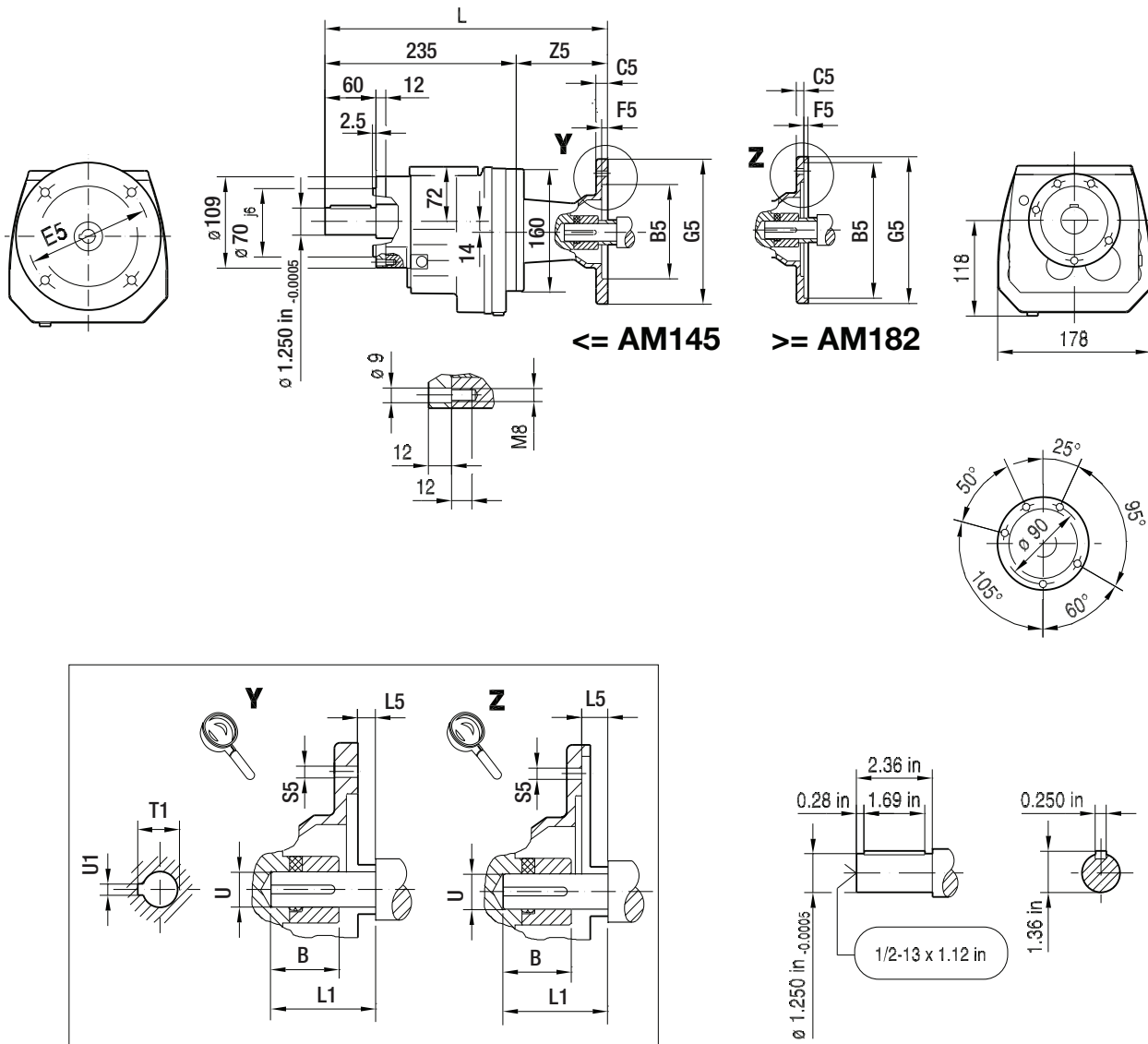


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	322	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	346	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	346	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	383	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	383	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	436	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RF47R37) see page 269.

RZ47..

01 029 00 11

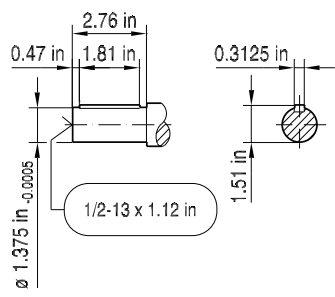
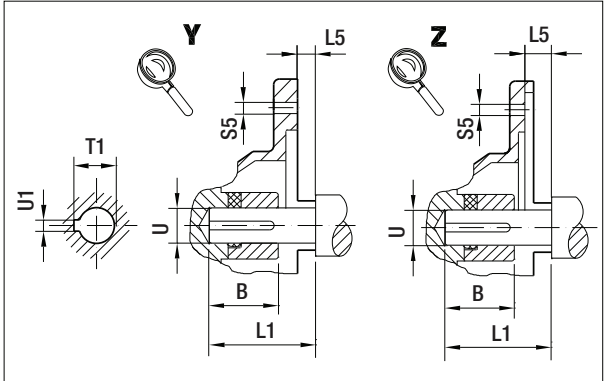
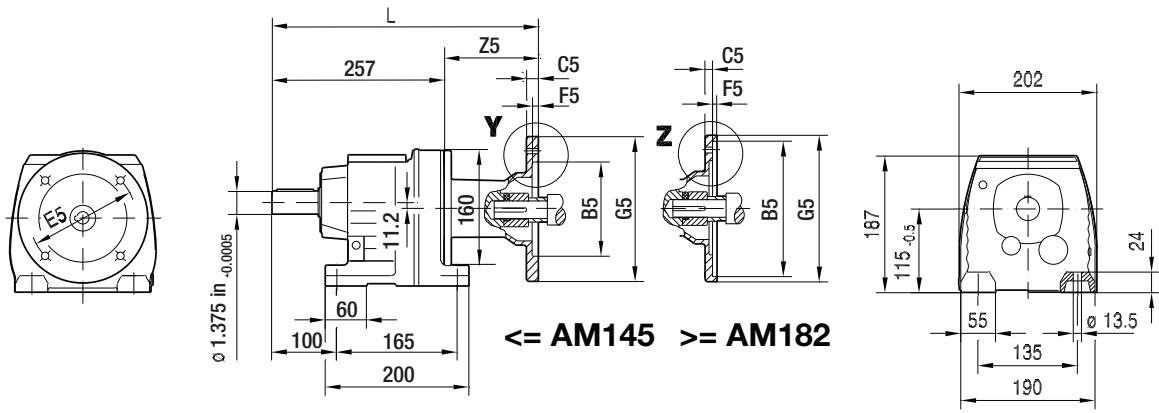


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	322	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	346	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	346	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	383	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	383	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	436	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

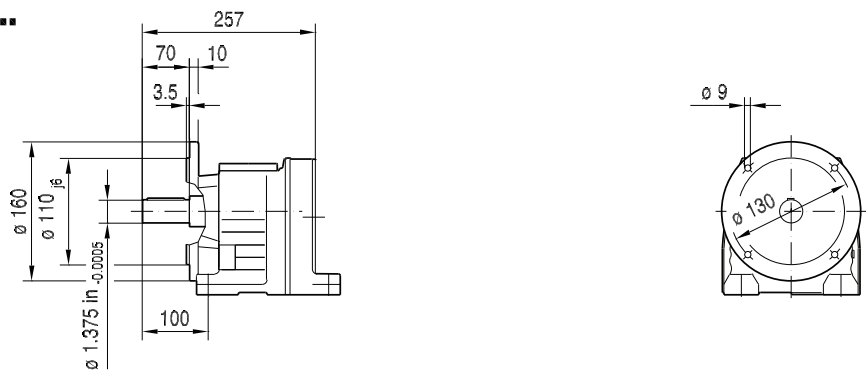
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RZ47R37) see page 269.

01 030 00 11

R57..



R57F..

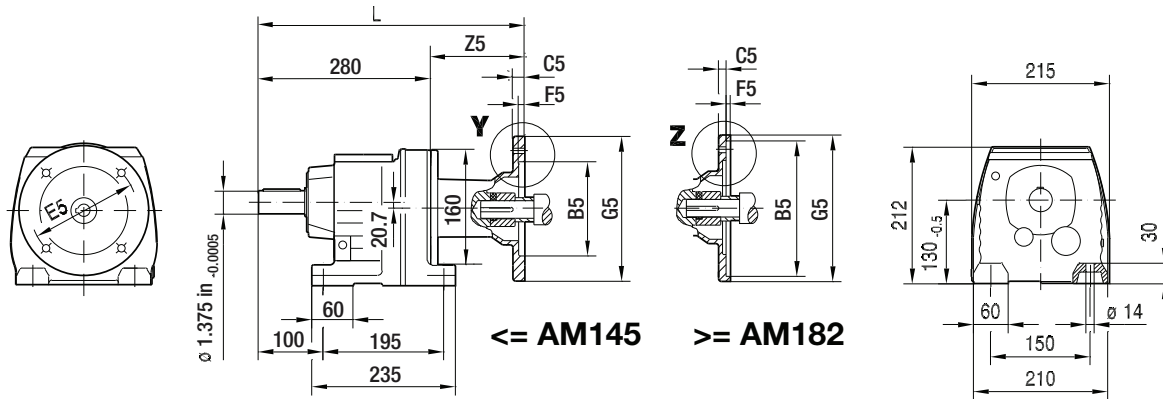


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	344	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	368	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	368	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	405	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	405	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	458	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

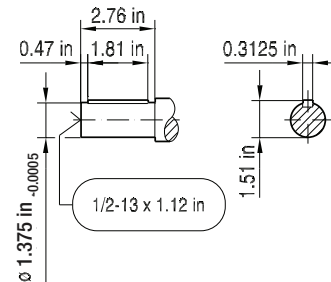
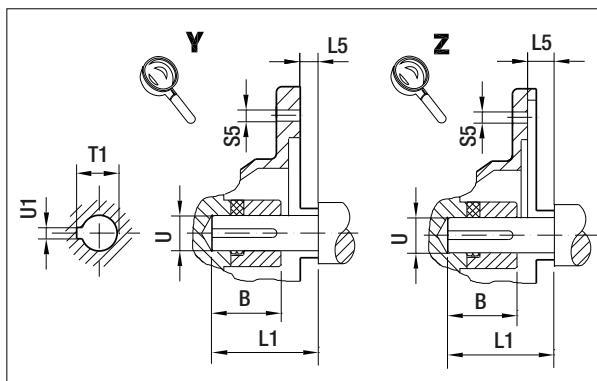
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R57R37) see page 269.

01 033 00 11

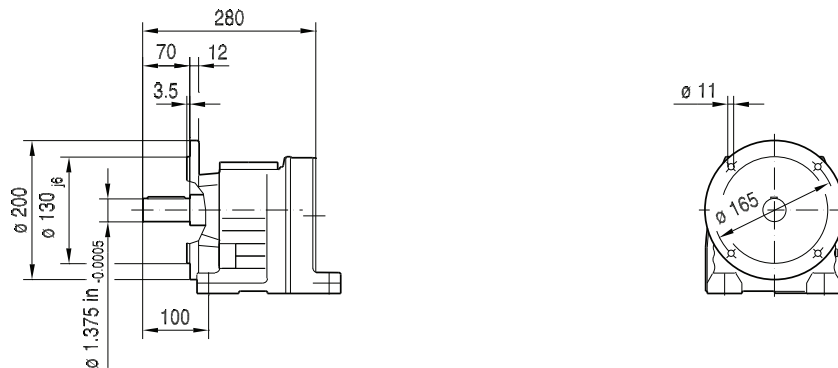
R67..



≤ AM145 ≥ AM182



R67F..

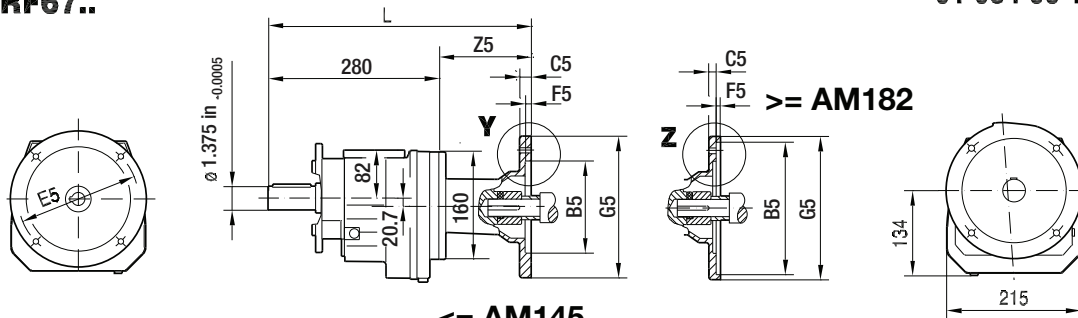


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	367	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	391	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	391	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	428	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	428	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	481	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

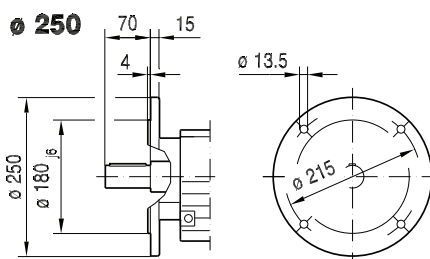
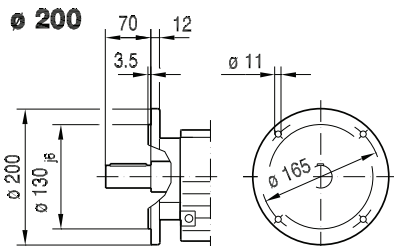
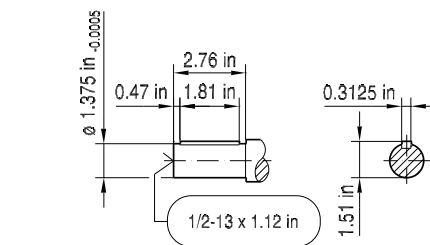
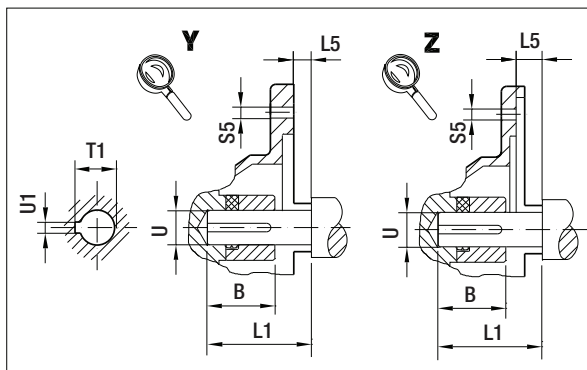
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R67R37) see page 269.

RF67..

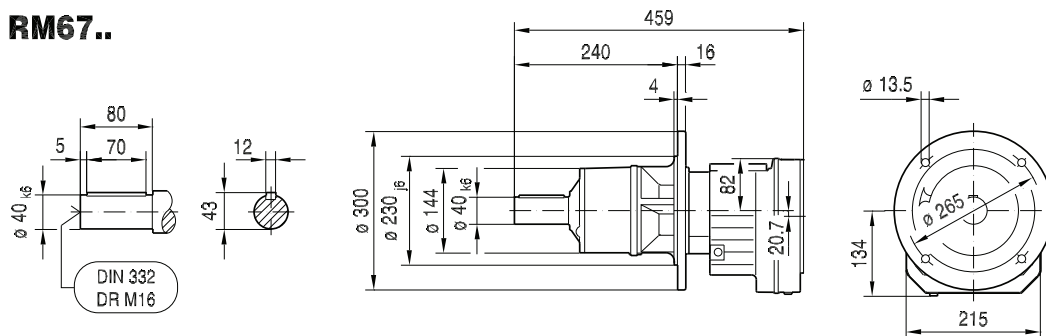
01 034 00 11



<= AM145



RM67..

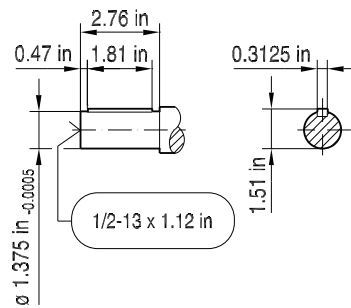
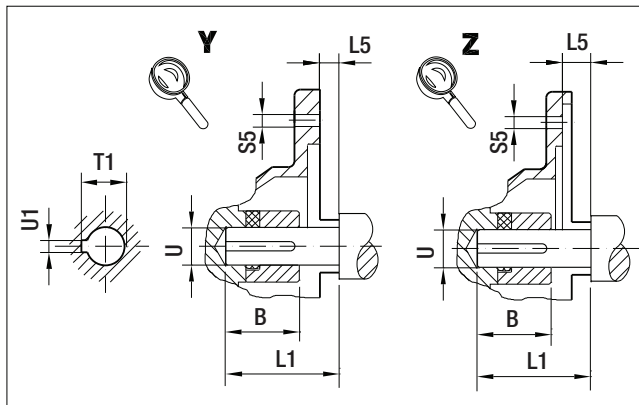
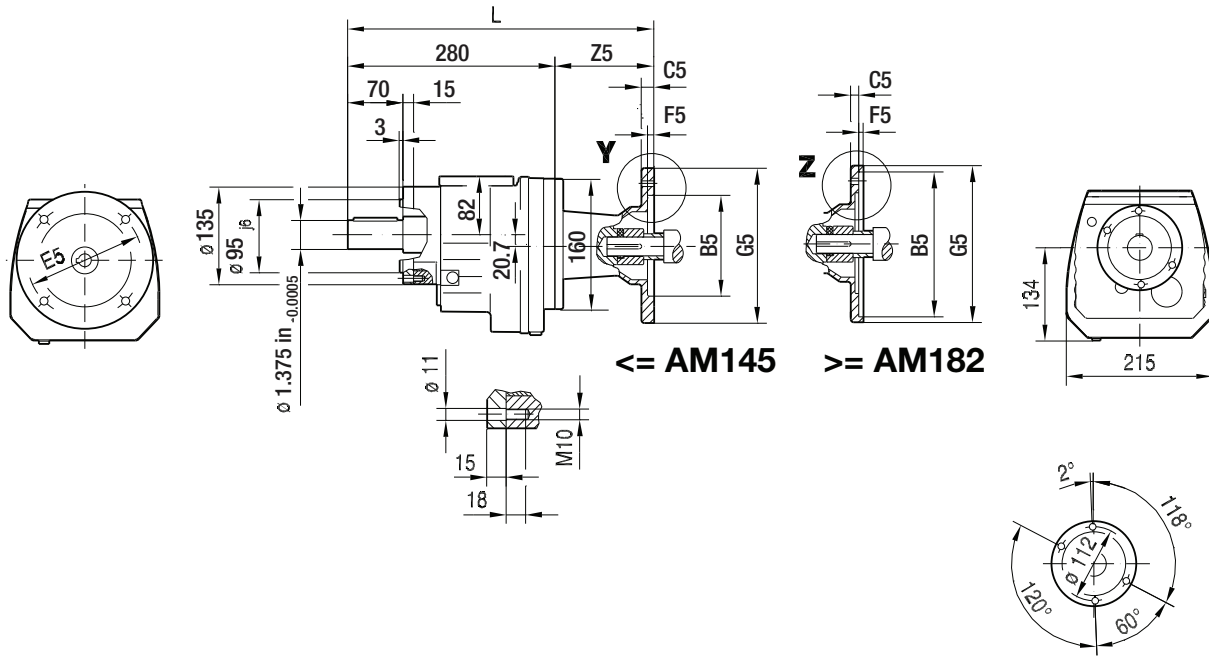


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	367	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	391	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	391	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	428	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	428	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	481	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RF67R37) see page 269.

01 035 00 11

RZ67..

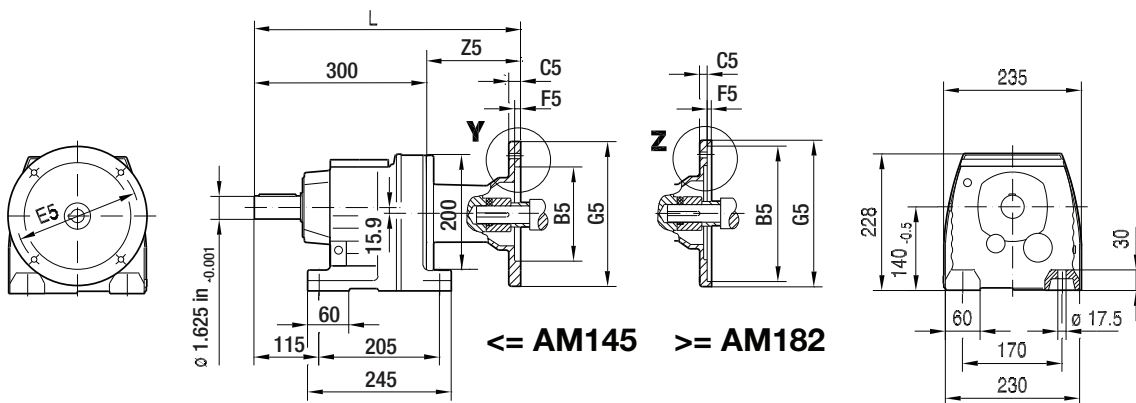


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	367	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	87
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	391	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	391	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	110.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	428	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	428	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	147.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	481	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	200.5

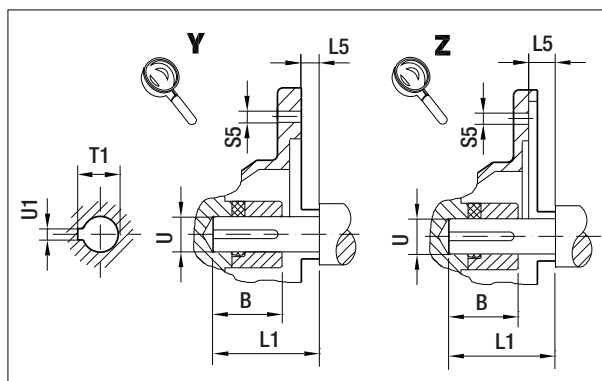
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RZ67R37) see page 269.

01 036 00 11

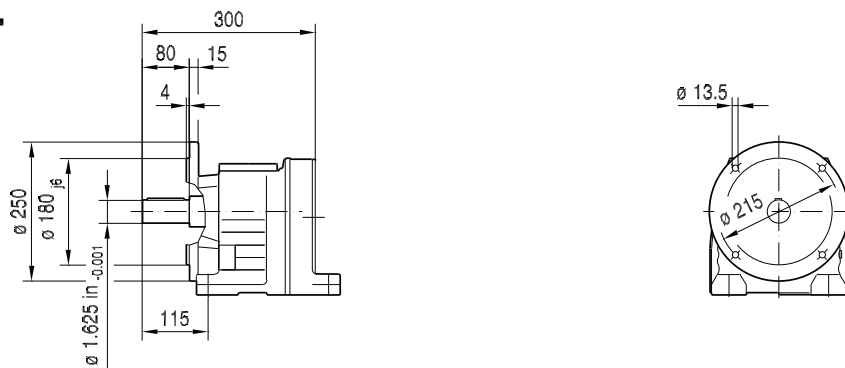
R77..



\leq AM145 \geq AM182



R77F..

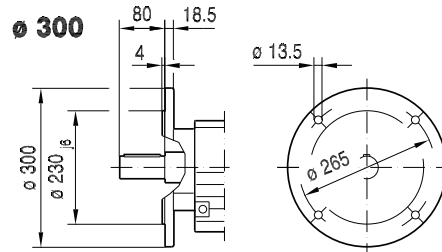
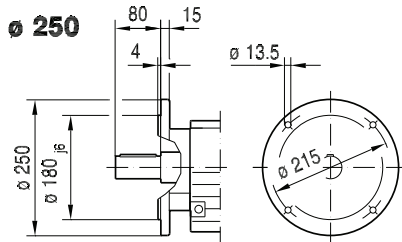
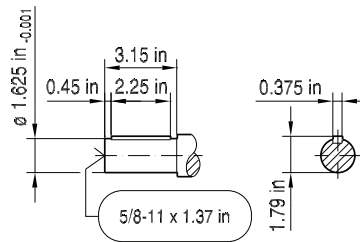
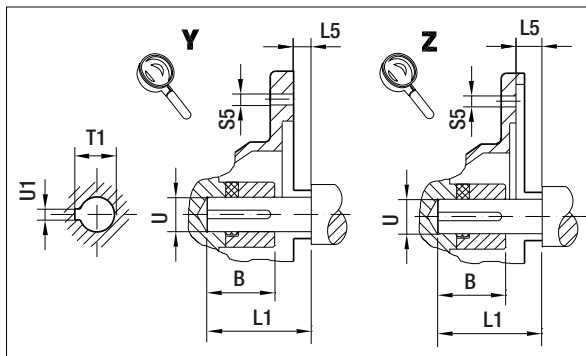
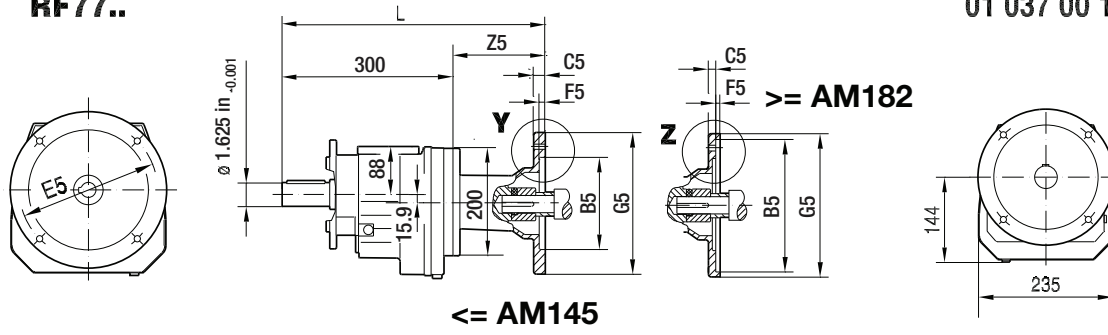


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	381	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	81
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	404	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	404	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	440	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	440	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	489	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	188.5

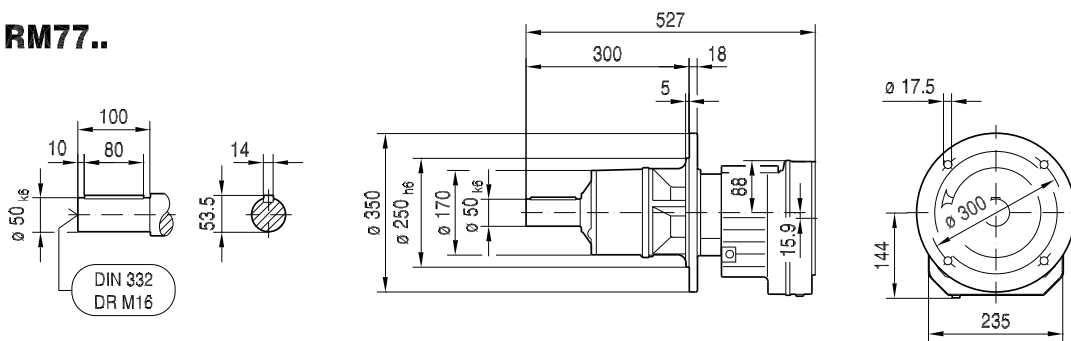
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R77R37) see page 269.

RF77..

01 037 00 11



RM77..

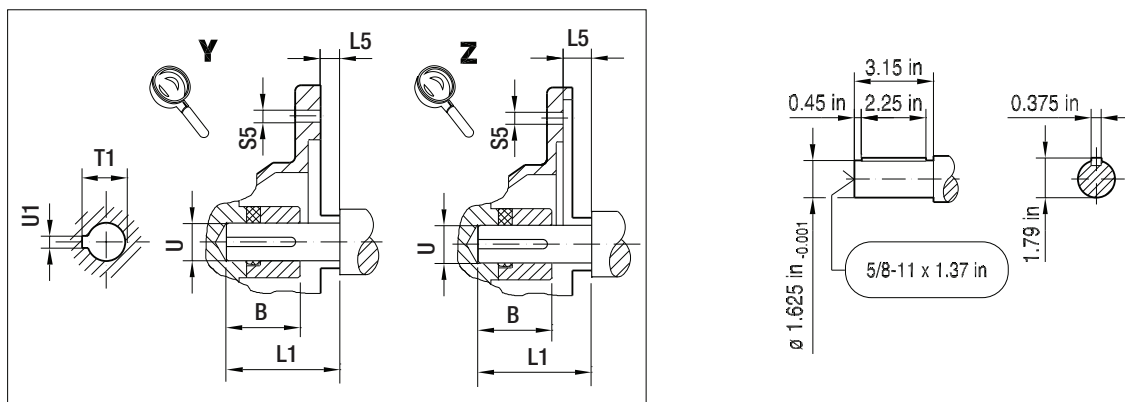
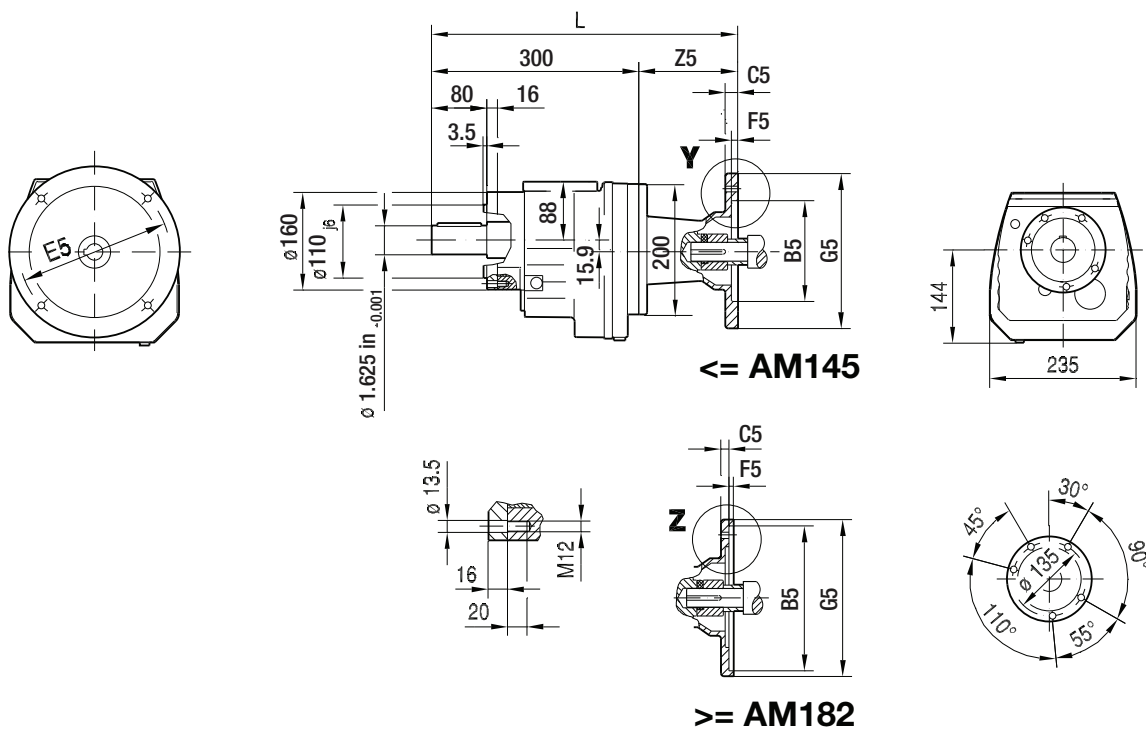


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	381	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	81
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	404	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	404	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	440	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	440	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	489	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	188.5

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RF77R37) see page 269.

01 038 00 11

RZ77..

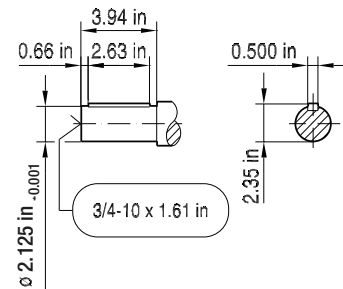
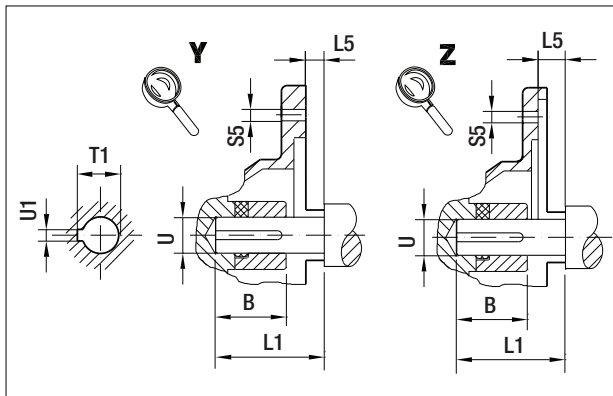
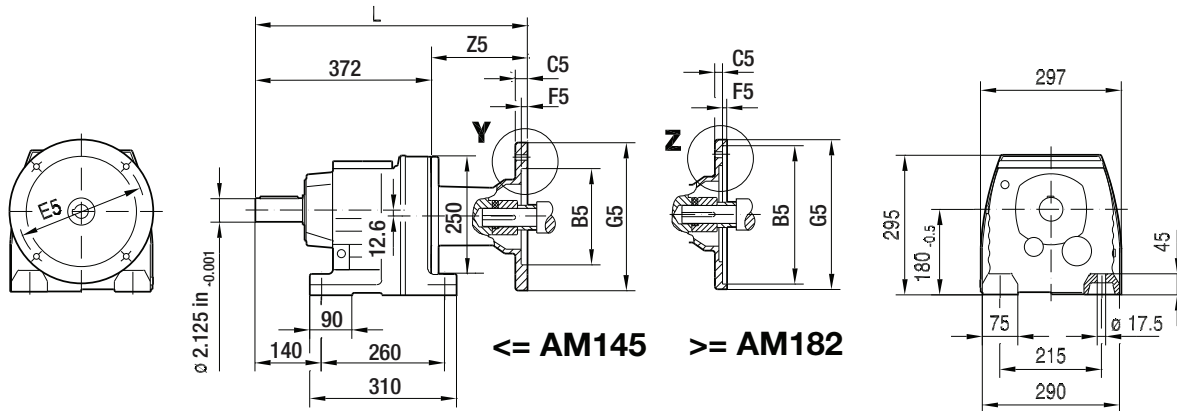


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM56	1.23 in	4.50 in	11	5.875 in	4.5	170	381	1.88 in	-0.18 in	10.5	0.71 in	0.625 in	0.188 in	81
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	404	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	404	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	103.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	440	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	440	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	139.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	489	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	188.5

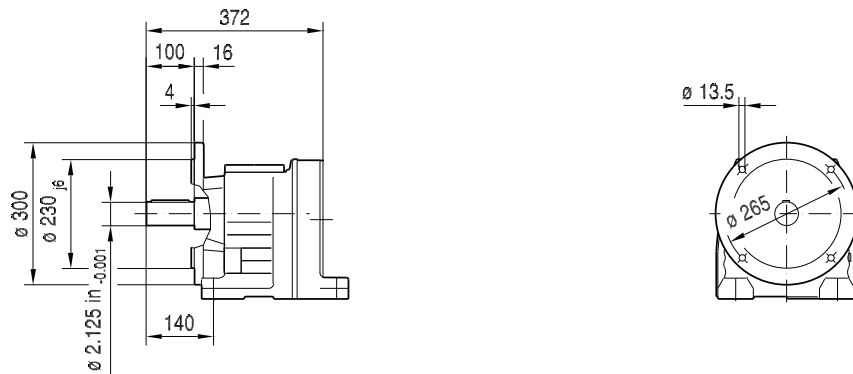
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RZ77R37) see page 269.

01 039 00 11

R87..



R87F..

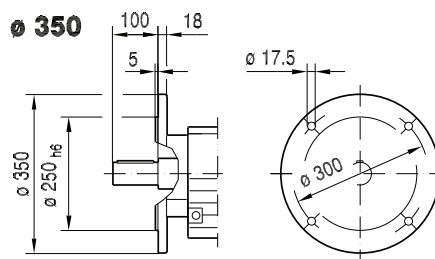
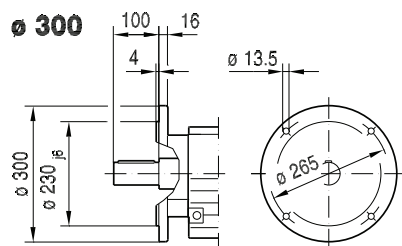
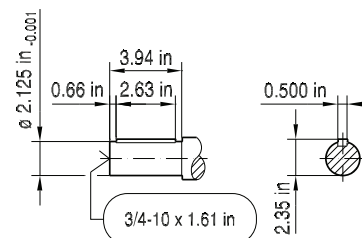
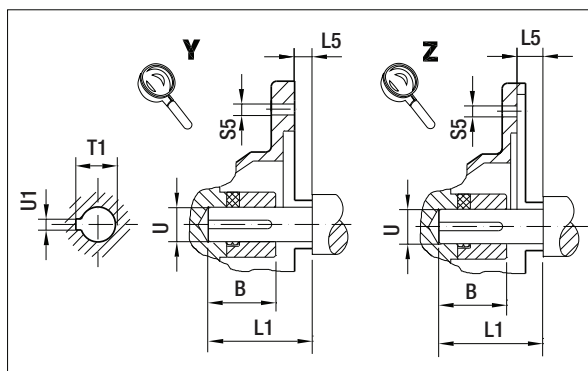
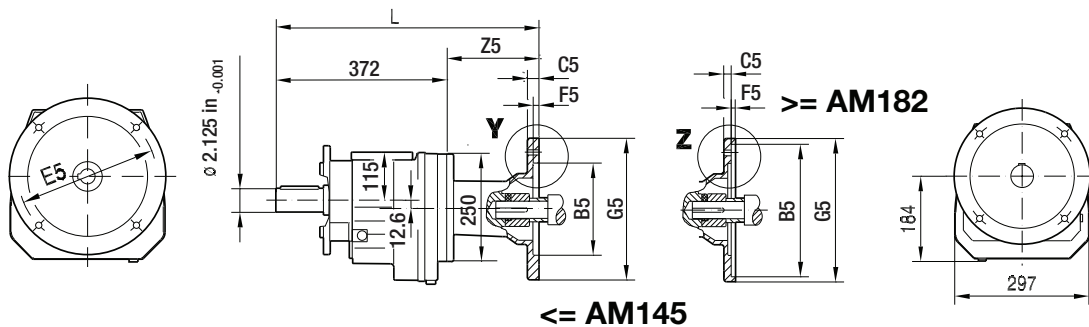


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	471	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	471	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	507	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	507	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	556	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	183.5
AM254/256	3.65 in	8.50 in	14	7.25 in	5	228	606	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	234
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	613	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	241

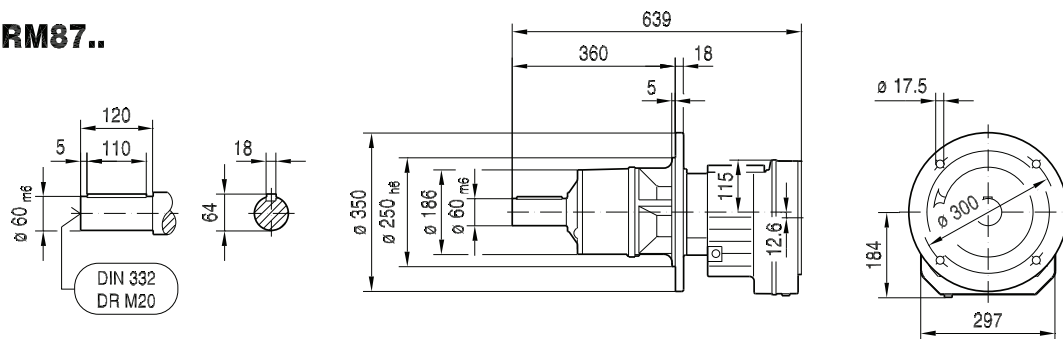
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R87R57) see page 269.

RF87..

01 040 00 11



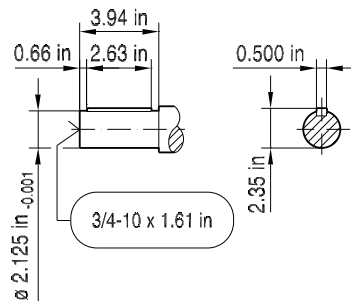
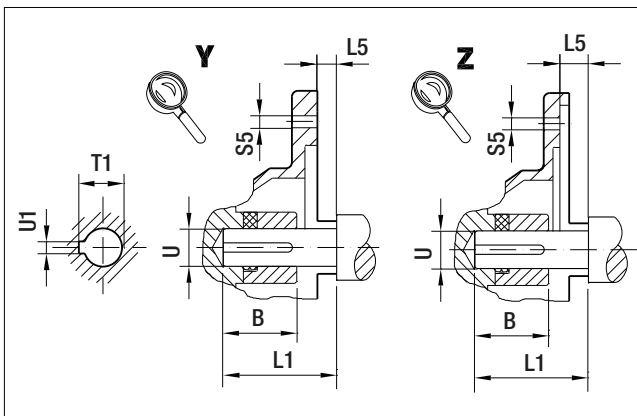
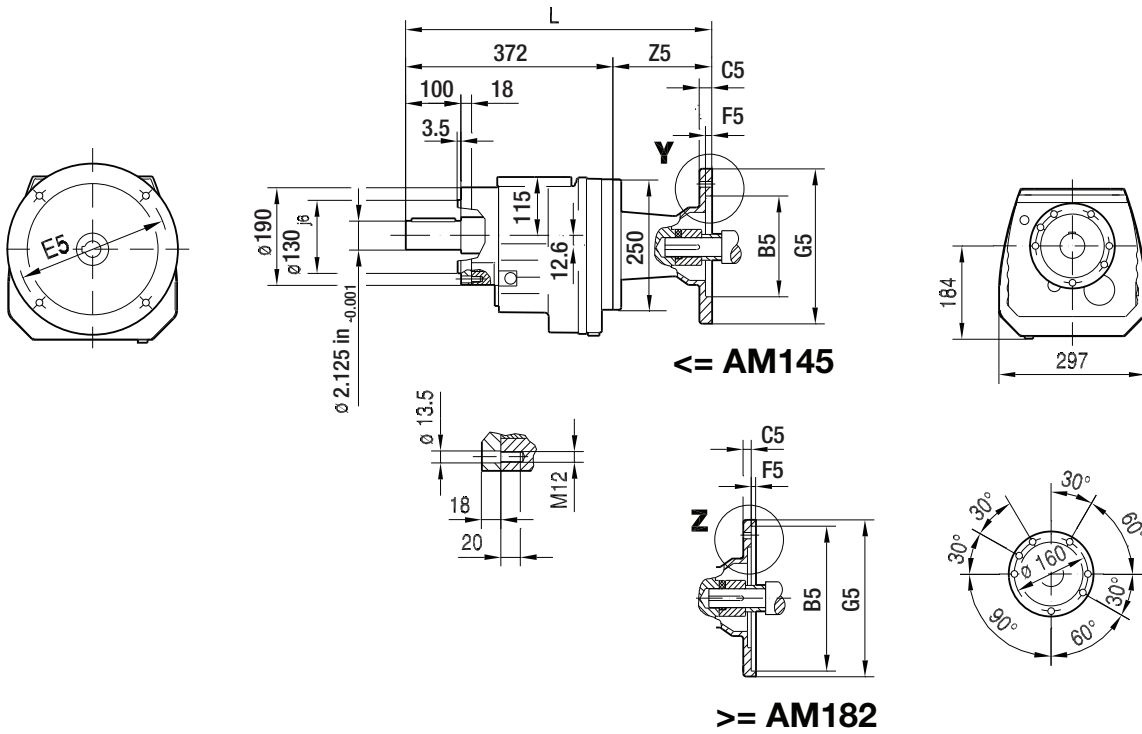
RM87..



(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	471	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	471	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	507	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	507	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	556	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	183.5
AM254/256	3.65 in	8.50 in	14	7.25 in	5	228	606	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	234
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	613	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	241

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RF87R57) see page 269.

RZ87..

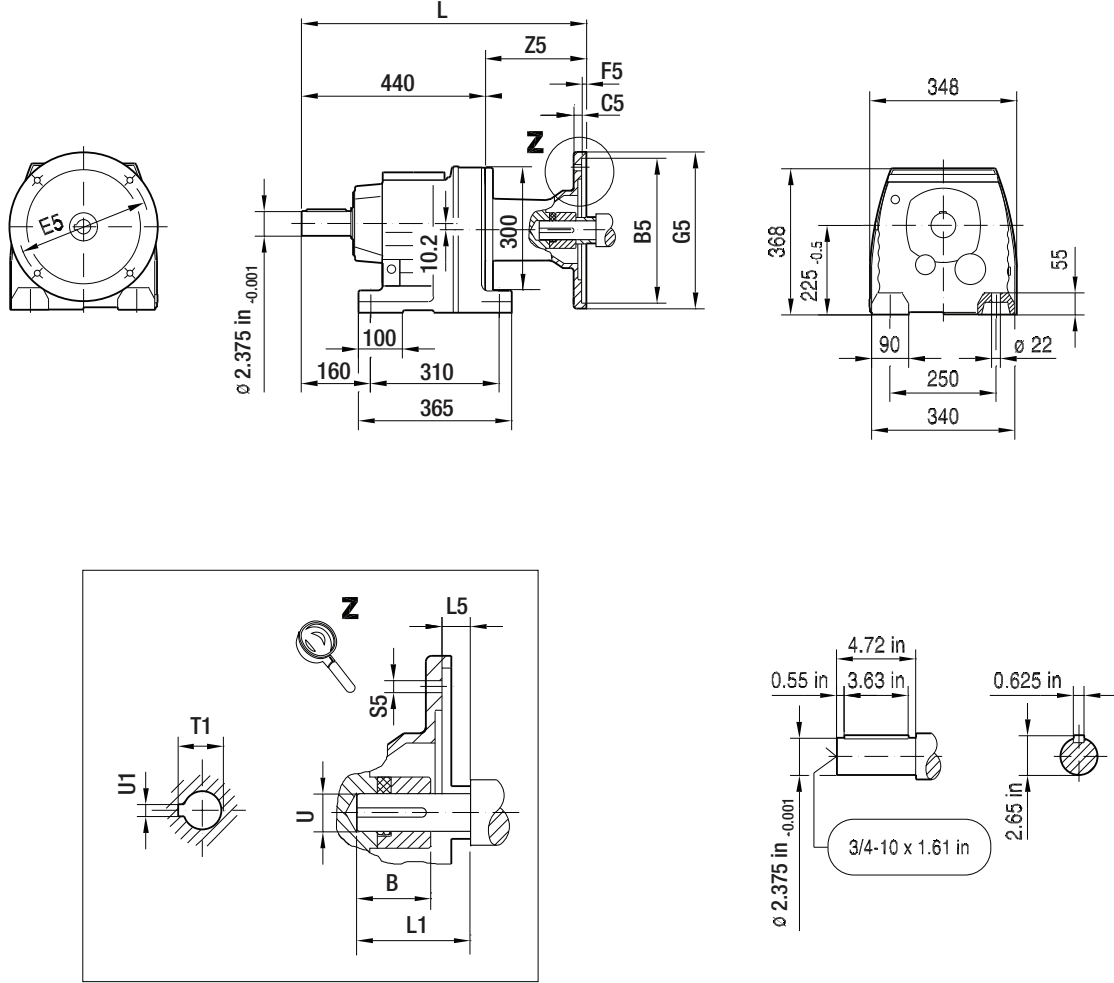


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM143	1.68 in	4.50 in	12	5.875 in	4.5	170	471	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM145	1.68 in	4.50 in	12	5.875 in	4.5	170	471	2.25 in	0.13 in	10.5	0.98 in	0.875 in	0.188 in	98.5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	507	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	507	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	134.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	556	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	183.5
AM254/256	3.65 in	8.50 in	14	7.25 in	5	228	606	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	234
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	613	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	241

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RZ87R57) see page 269.

01 042 00 11

R97..



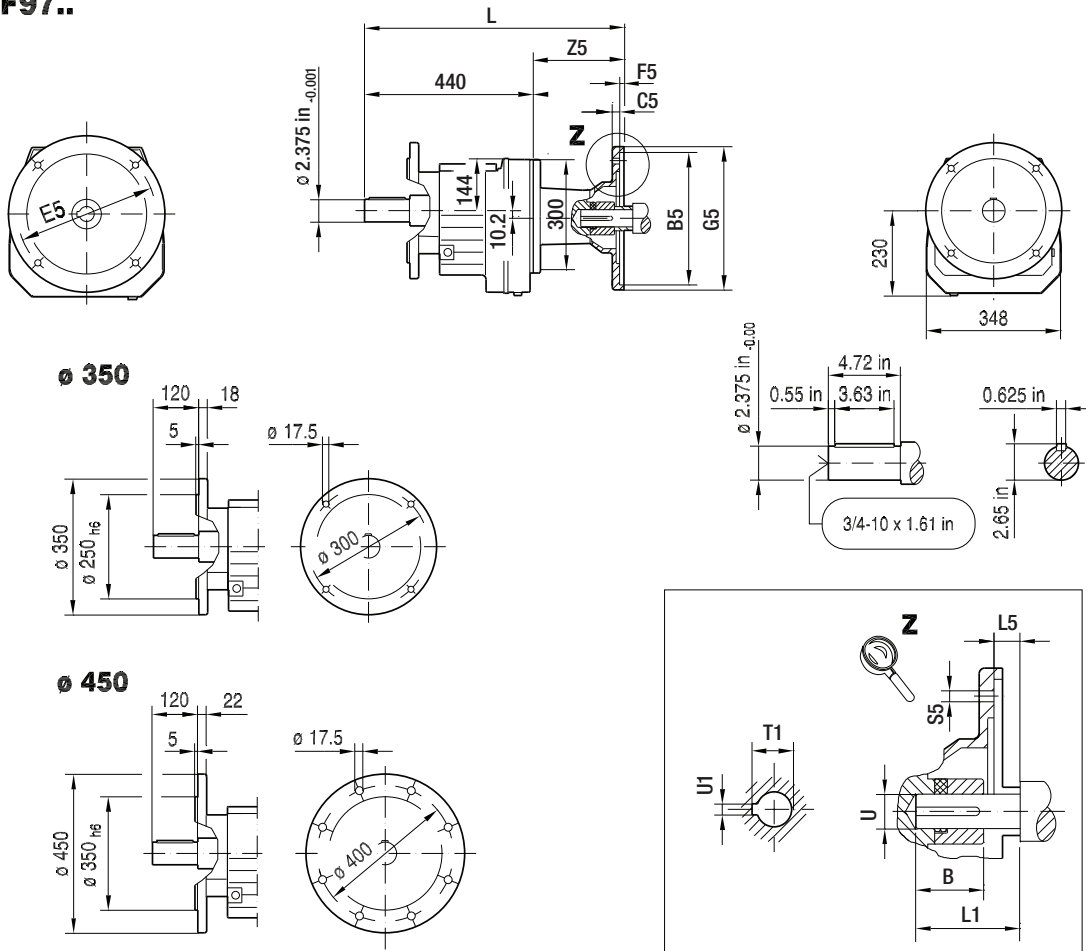
8

(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	570	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	129.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	570	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	129.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	619	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	178.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	669	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	229
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	676	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	236
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	736	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	296
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	736	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	296

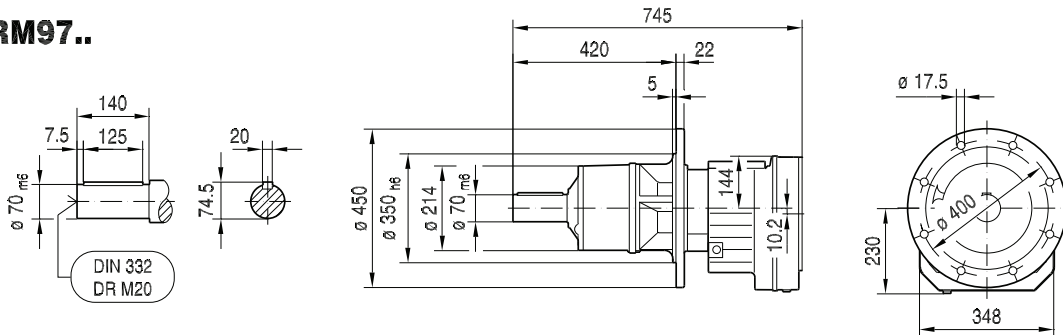
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R97R57) see page 269.

01 043 00 11

RF97..



RM97..

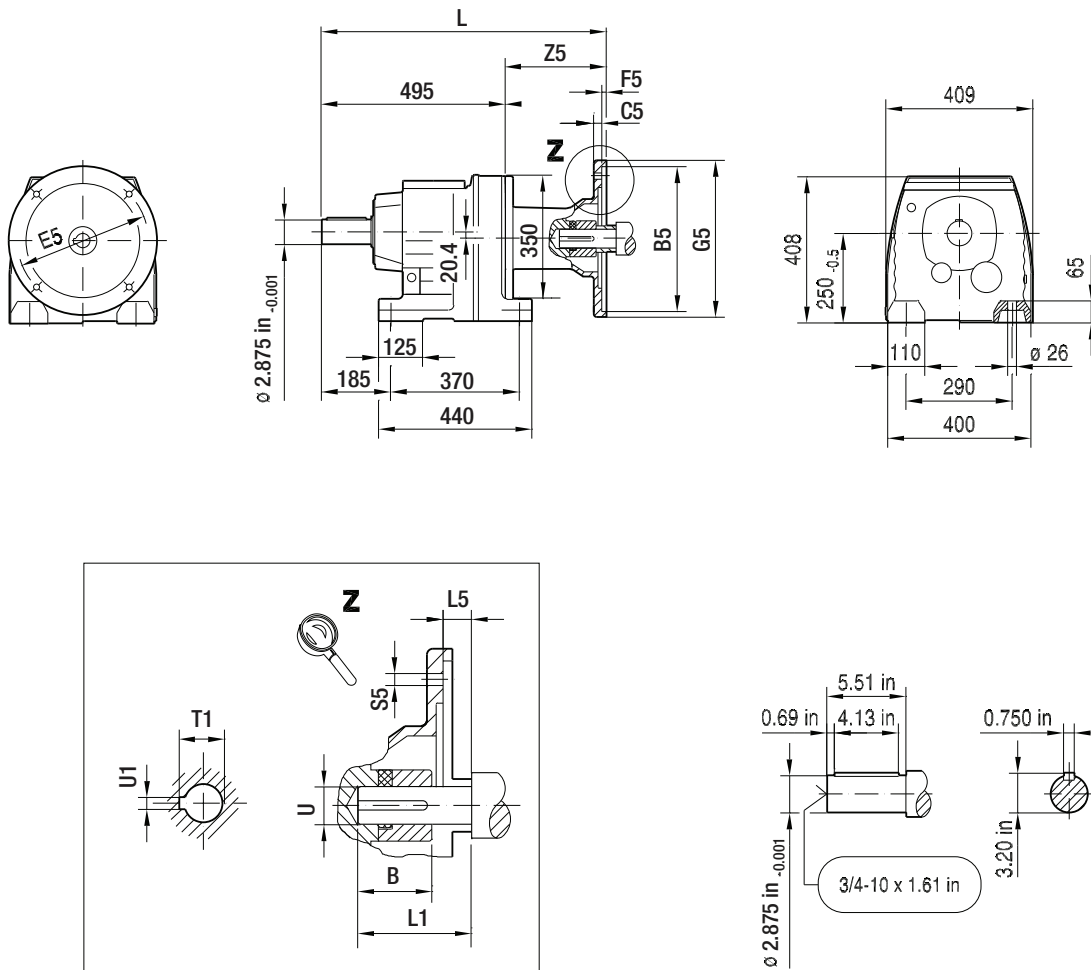


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	570	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	129.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	570	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	129.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	619	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	178.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	669	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	229
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	676	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	236
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	736	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	296
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	736	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	296

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RF97R57) see page 269.

01 044 00 11

R107..



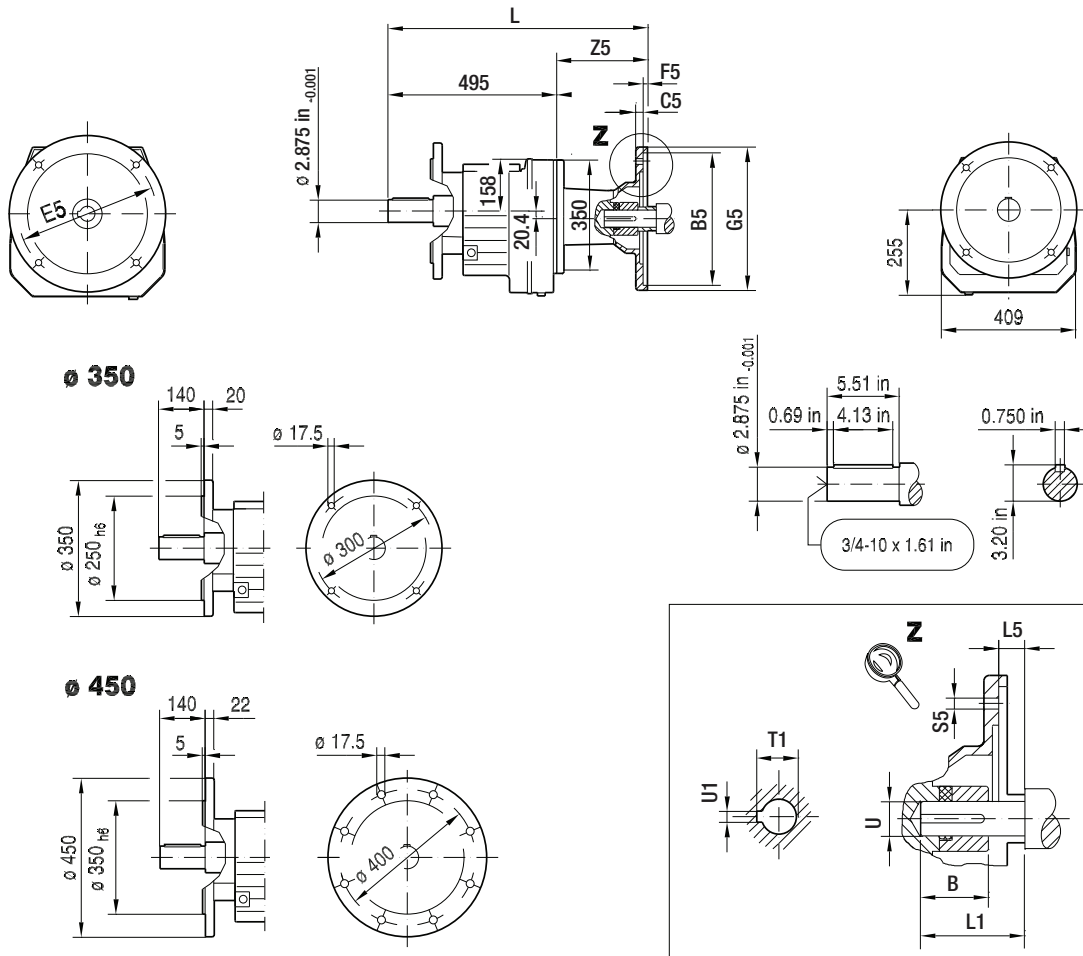
8

(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	619	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	123.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	619	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	123.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	668	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	172.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	718	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	223
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	725	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	230
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	785	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	290
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	785	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	290

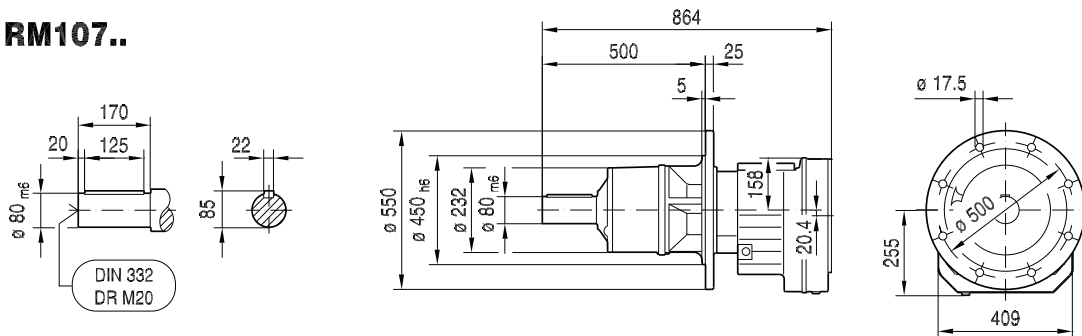
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R107R77) see page 269.


01 045 00 11

RF107..



RM107..

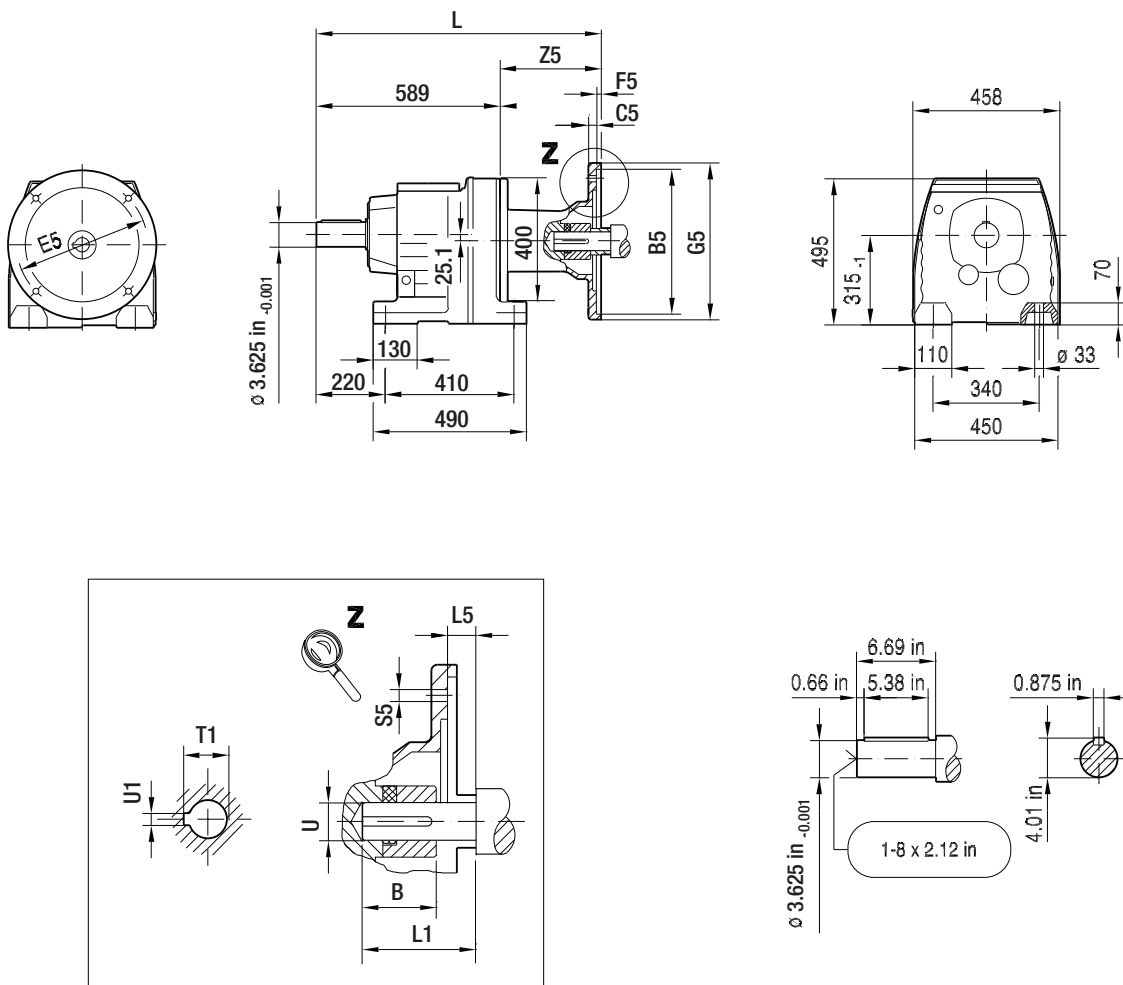


(→  132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM182	2.10 in	8.50 in	10	7.25 in	5	228	619	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	123.5
AM184	2.10 in	8.50 in	10	7.25 in	5	228	619	2.75 in	0.13 in	15	1.24 in	1.125 in	0.250 in	123.5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	668	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	172.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	718	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	223
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	725	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	230
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	785	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	290
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	785	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	290

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RF107R77) see page 269.

01 046 00 11

R137..



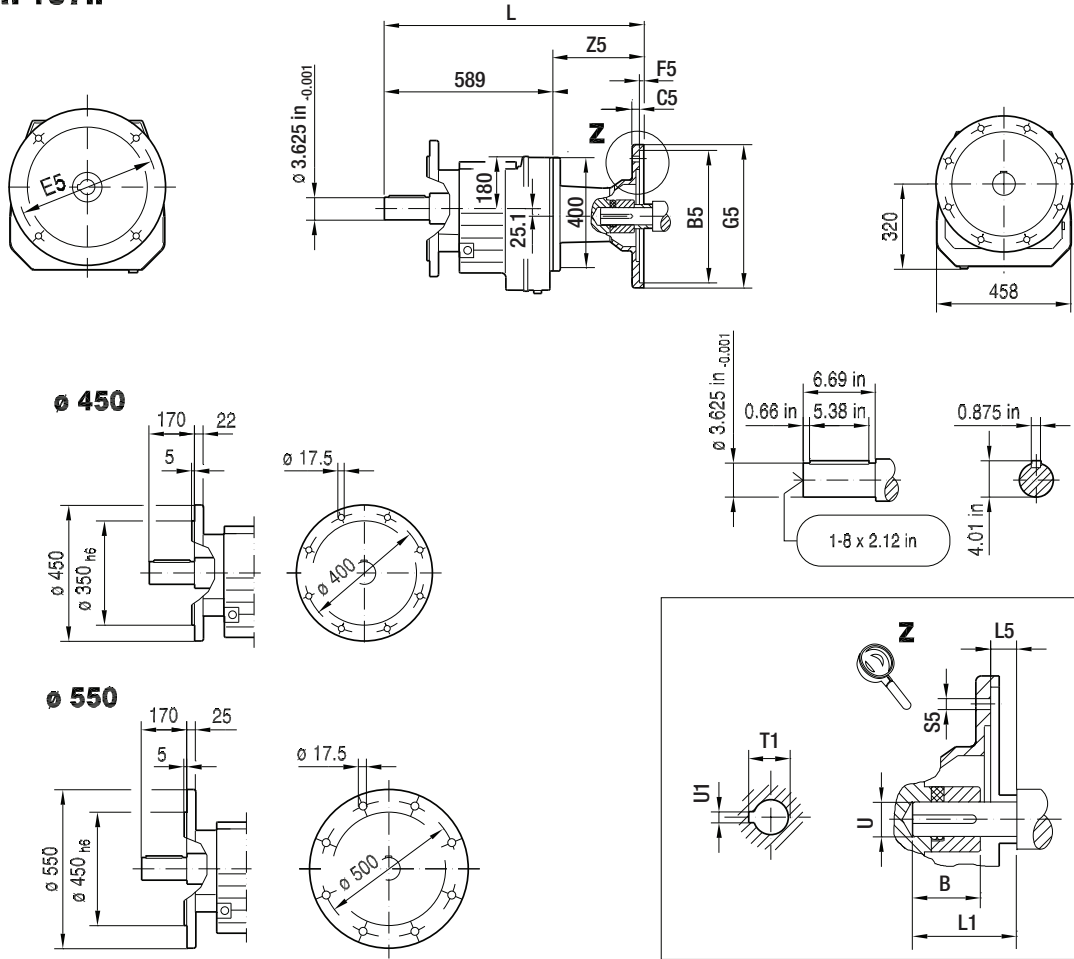
8

(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	755	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	165.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	805	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	216
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	812	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	223
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	872	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	283
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	872	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	283

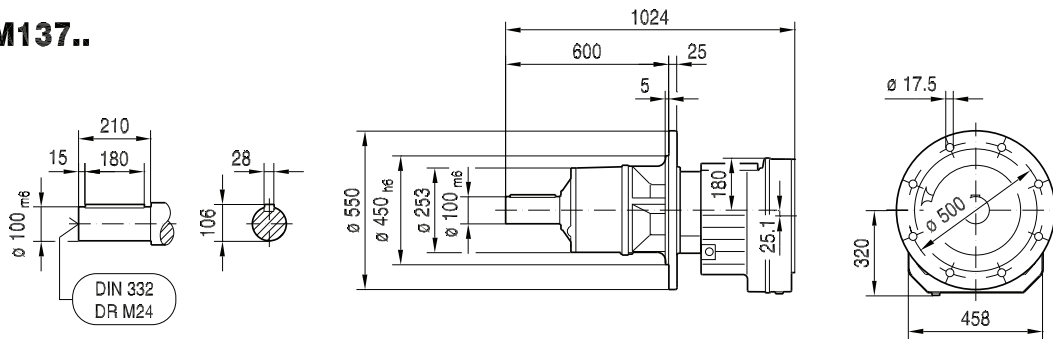
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R137R77) see page 269.

01 047 00 11

RF137..



RM137..

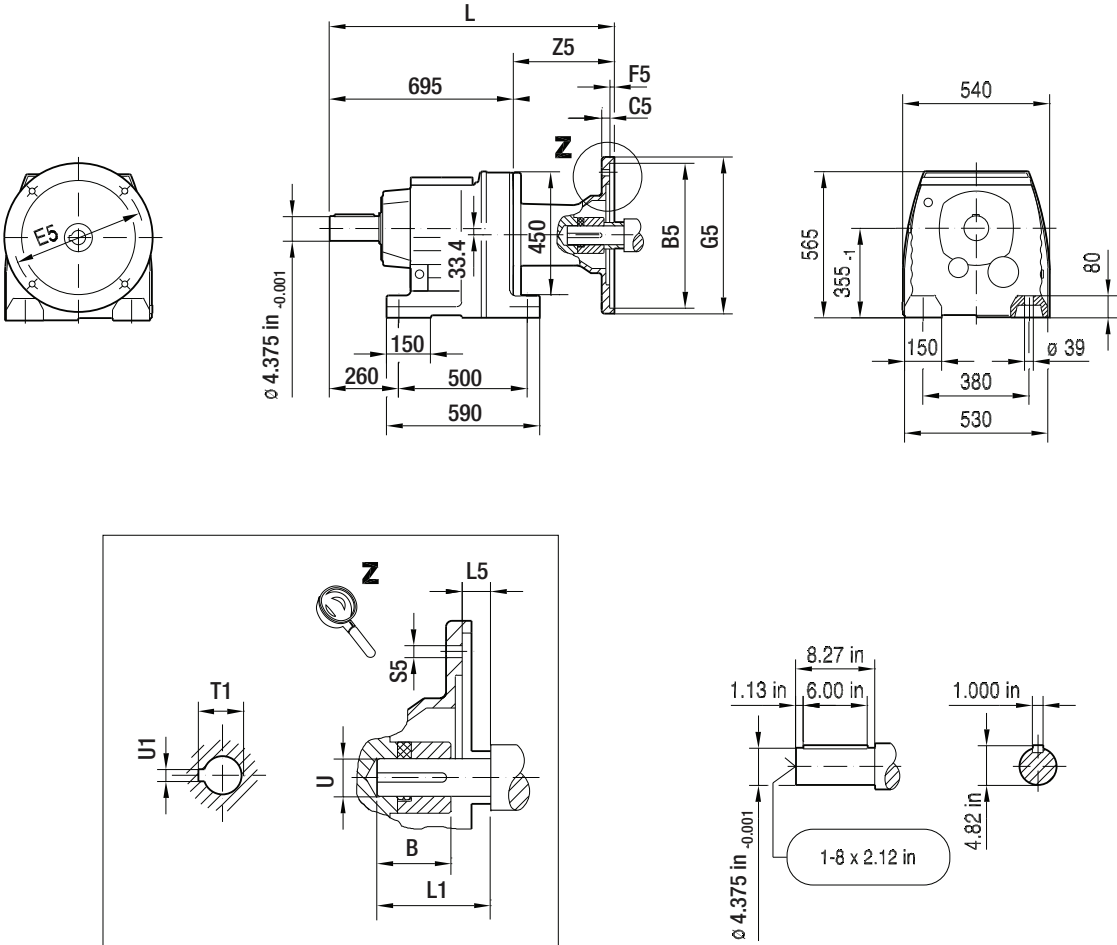


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM213/215	2.76 in	8.50 in	11	7.25 in	5	228	755	3.38 in	0.25 in	15	1.52 in	1.375 in	0.312 in	165.5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	805	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	216
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	812	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	223
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	872	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	283
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	872	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	283

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RF137R77) see page 269.

01 048 00 11

R147..



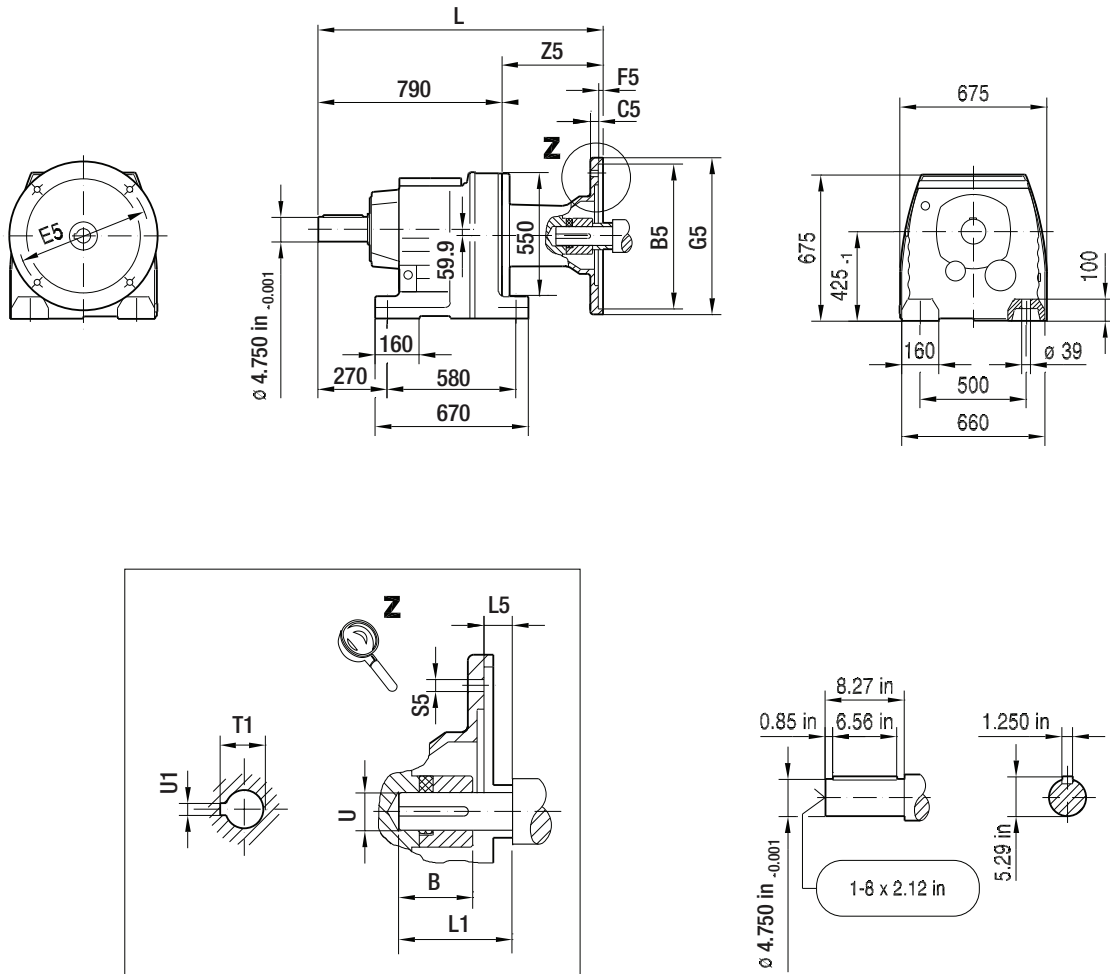
8

(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	903	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	208
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	910	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	215
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	970	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	275
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	970	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	275

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R147R77) see page 269.

01 050 00 11

R167..



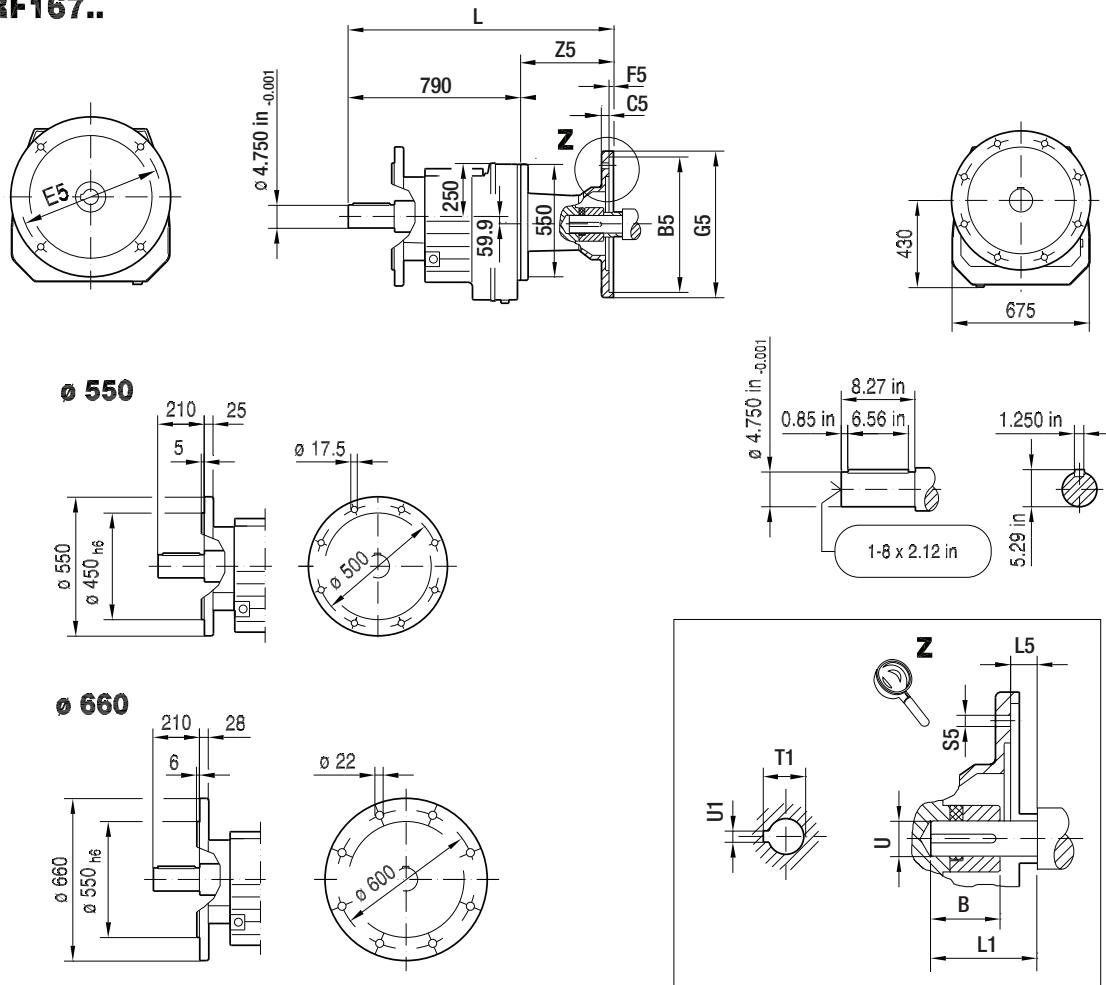
8

(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	990	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	200
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	997	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	207
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	1057	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	267
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	1057	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	267

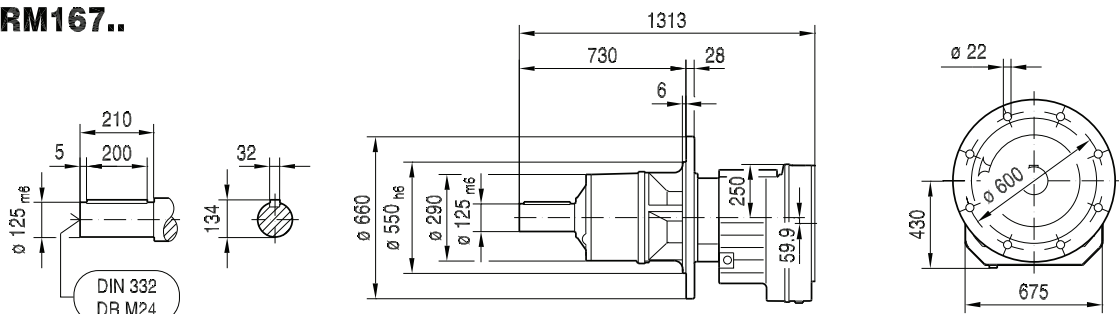
Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: R167R97) see page 269.

01 051 00 11

RF167..



RM167..

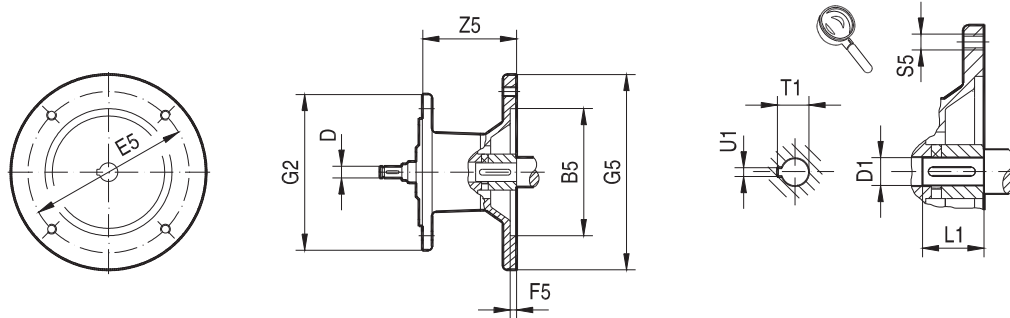


(→ 132)	B	B5	C5	E5	F5	G5	L	L1	L5	S5	T1	U	U1	Z5
AM254/256	3.65 in	8.50 in	12	7.25 in	5	228	990	4.00 in	0.25 in	15	1.80 in	1.625 in	0.375 in	200
AM284/286	4.00 in	10.50 in	15	9.00 in	5	286	997	4.62 in	0.25 in	15	2.10 in	1.875 in	0.500 in	207
AM324/326	3.88 in	12.50 in	17	11.0 in	5	356	1057	5.25 in	0.25 in	17.5	2.36 in	2.125 in	0.500 in	267
AM364/365	4.51 in	12.50 in	17	11.0 in	5	356	1057	5.88 in	0.25 in	17.5	2.66 in	2.375 in	0.625 in	267

Note: Dimensions in mm unless otherwise noted. For all available output shaft diameters, see page 274. For dimensions of compound gear units (ex: RF167R97) see page 269.

8.4 R/RX..AM.. [IEC dimensions]

23 002 100



8

		Dimensions in mm												
		B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1	
R..27 R..37	AM63	95	10	115	3.5	120	140	M8	72	11	23	12.8	4	
	AM71 ¹⁾	110		130	4		160			14	30	16.3	5	
	AM80 ¹⁾	130	12	165	4.5		200	M10	106	19	40	21.8	6	
	AM90 ¹⁾		14							24	50	27.3	8	
R..47 ²⁾ R..57 R..67	AM63	95	10	115	3.5	160	140	M8	66	11	23	12.8	4	
	AM71	110		130	4		160			14	30	16.3	5	
	AM80	130	12	165	4.5		200	M10	99	19	40	21.8	6	
	AM90		14							24	50	27.3	8	
	AM100 ¹⁾	180	16	215	5		250	M12	134	28	60	31.3	8	
	AM112 ¹⁾		18							300	191	38	80	41.3
	AM132S/M ¹⁾	230	22	265										
R..77	AM63	95	10	115	3.5	200	140	M8	60	11	23	12.8	4	
	AM71	110		130	4		160			14	30	16.3	5	
	AM80	130	12	165	4.5		200	M10	92	19	40	21.8	6	
	AM90		14							24	50	27.3	8	
	AM100 ¹⁾	180	16	215	5		250	M12	126	28	60	31.3	8	
	AM112 ¹⁾		18							300	179	38	80	41.3
	AM132S/M ¹⁾	230	22	265										
	AM132ML ¹⁾		28											
R..87	AM80	130	12	165	4.5	250	200	M10	87	19	40	21.8	6	
	AM90		14							24	50	27.3	8	
	AM100	180	16	215	5		250	M12	121	28	60	31.3	8	
	AM112		18							300	174	38	80	41.3
	AM132S/M	230	22	265										
	AM132ML		28											
	AM160 ¹⁾	250	28	300	6		350	M16	232	42	110	45.3	12	
	AM180 ¹⁾		32							48		51.8	14	

1) Check dimension (G5)/2 as adapter may protrude past the bottom of the feet on a foot-mounted gear unit.

2) Not with AM112

Fig.1

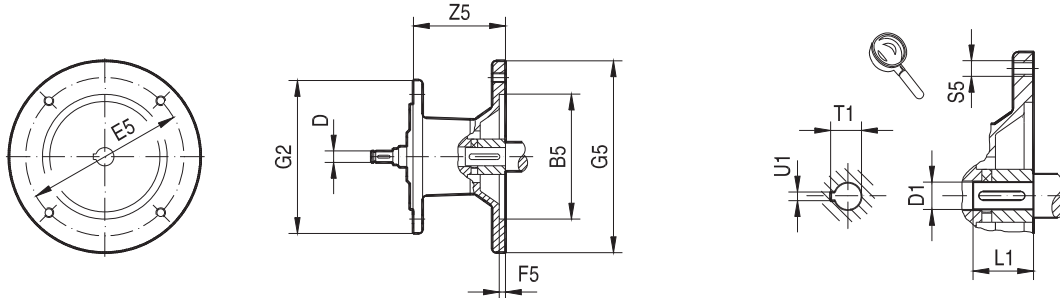


Fig.2

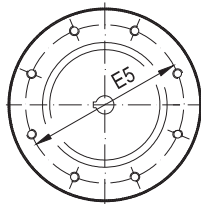


		Fig.	Dimensions in mm												
			B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1	
R..97	AM100	1	180	16	215	5	300	250	M12	116	28	60	31.3	8	
	AM112			18											
	AM132S/M		230	22	265										
	AM132ML			28											
	AM160		250	28	300			6	350	M16	227	42	110	45.3	12
	AM180			32								48		51.8	
	AM200		300	38	350			7	400	268	55	59.3	16		
R..107	AM100	1	180	16	215	5	350	250	M12	110	28	60	31.3	8	
	AM112			18											
	AM132S/M		230	22	265										
	AM132ML			28											
	AM160		250	28	300			6	350	M16	221	42	110	45.3	12
	AM180			32								48		51.8	
	AM200		300	38	350			7	400	262	55	59.3	16		
	AM225	2				350	38							400	450
R..137	AM132S/M	1	230	22	265	5	400	300	M12	156	38	80	41.3	10	
	AM132ML			28											
	AM160	250	28	300	6	350		M16	214	42	110	45.3	12		
	AM180		32							48		51.8			
	AM200	300	38	350	7	400		255	55	59.3	16				
	AM225											2	350	38	400

23 004 100

Fig.1

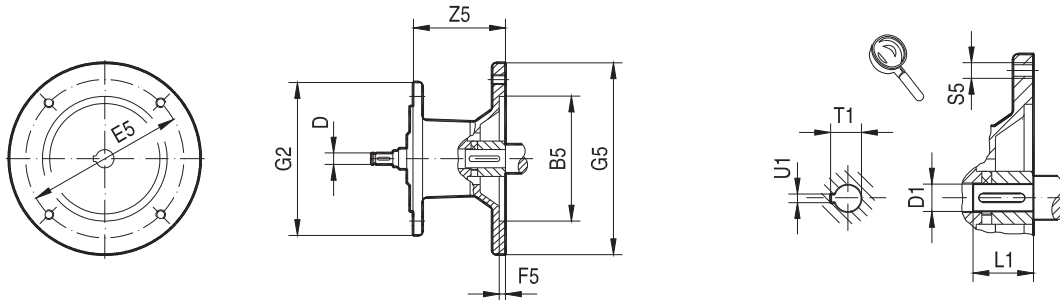


Fig.2

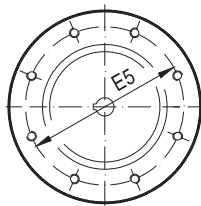
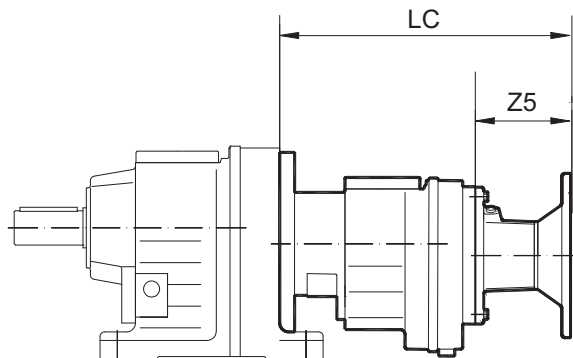


		Fig.	Dimensions in mm											
			B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
R..147	AM132S/M	1	230	22	265	5	450	300	M12	148	38	80	41.3	10
	AM132ML			28							38			
	AM160		250	28	300	6		350	M16	206	42	110	45.3	12
	AM180			32							48		51.8	14
	AM200	300	38	350	7	400		M16	247	55	140	59.3	16	
	AM225		38							60		64.4	18	
	AM250	450	48	500	7	550		M16	336	65	140	69.4	18	
	AM280									75		79.9	20	
R..167	AM160	1	250	28	300	6	550	350	M16	198	42	110	45.3	12
	AM180			32							48			
	AM200		300	38	350	7		400	M16	239	55	140	59.3	16
	AM225			38							60		64.4	18
	AM250	450	48	500	7	550		M16	328	65	140	69.4	18	
	AM280									75		79.9	20	

8.5 R.. R.. AM.. [compound dimensions]



R_R_AM

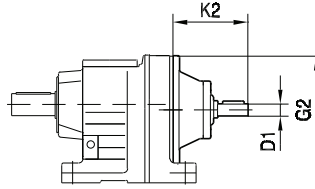
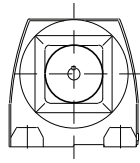
Large Unit	Small Unit	Adapter	Z5	LC
R..47 R..57 R..67	R37	AM56	93.5	258.5
		AM143	117	282
		AM145	117	282
R..77	R37	AM56	93.5	250.5
		AM143	117	274
		AM145	117	274
R..87	R57	AM56	87	303
		AM143	110.5	326.5
		AM145	110.5	326.5
		AM182	147.5	363.5
		AM184	147.5	363.5
		AM213/215	200.5	416.5
R..97	R57	AM56	87	298
		AM143	110.5	321.5
		AM145	110.5	321.5
		AM182	147.5	358.5
		AM184	147.5	358.5
R..107	R77	AM56	81	328
		AM143	103.5	350.5
		AM145	103.5	350.5
		AM182	139.5	386.5
		AM184	139.5	386.5
R..137	R77	AM56	81	321
		AM143	103.5	343.5
		AM145	103.5	343.5
		AM182	139.5	379.5
		AM184	139.5	379.5
		AM213/215	188.5	428.5

Large Unit	Small Unit	Adapter	Z5	LC
R..147	R77	AM56	81	313
		AM143	103.5	335.5
		AM145	103.5	335.5
		AM182	139.5	371.5
		AM184	139.5	371.5
		AM213/215	188.5	420.5
R..167	R87	AM143	98.5	378.5
		AM145	98.5	378.5
		AM182	134.5	414.5
		AM184	134.5	414.5
		AM213/215	183.5	463.5
		AM254/256	234	514
		AM284/286	241	521
		R..167	R97	AM182
AM184	129.5			454.5
AM213/215	178.5			503.5
AM254/256	229			554
AM284/286	236			561
R107	AM324/326		296	621
	AM364/365		296	621
	AM182		123.5	505.5
	AM184		123.5	505.5
	AM213/215		172.5	554.5
		AM254/256	223	605
		AM284/286	230	612
		AM324/326	290	672
		AM364/365	290	672

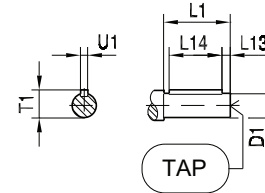
8.6 R/RX.. AD.. [dimensions]

8.6.1 Input shaft - Inch

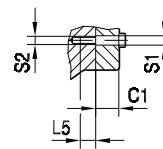
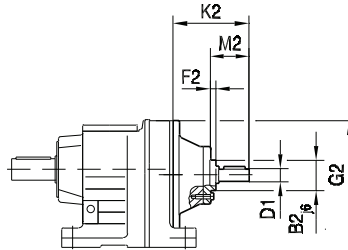
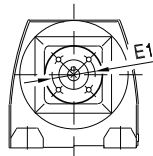
R.. AD..



01 054 01 01US



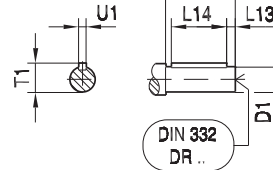
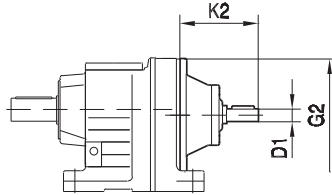
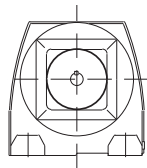
R.. AD../ZR



		B2	C1	D1	E1	F2	G2	K2	L1	L5	L13	L14	M2	S1	S2	T1	U1	TAP (inch)	
R.27 R/RX.37	AD1	-	-	0.625 in	-	-	120	102	40	-	4	32	-	-	-	0.70 in	0.1875 in	1/4-20 x0.63	
	AD2	55	13.5	0.750 in	80	8		130	40	12	4	32	50	9	M8	0.83 in			
R/RX.47 R/RX.57 R/RX.67	AD2	55	13.5	0.750 in	80	8	160	123	40	12	4	32	50	9	M8	0.83 in	0.1875 in	1/2-13 x1.12	
	AD3	70	15.5	0.875 in	105	8		159	50	16	5	40	60	11	M10	0.96 in			
R/RX.77	AD2	55	13.5	0.750 in	80	8	200	116	40	12	4	32	50	9	M8	0.83 in	0.1875 in	1/4-20 x0.63	
	AD3	70	15.5	0.875 in	105	8		151	50	16	5	40	60	11	M10	0.96 in			
	AD4	100	16	1.375 in	130	13		224	80	20	5	70	95.5	13.5	M12	1.51 in			0.3125 in
R/RX.87	AD2	55	13.5	0.750 in	80	8	250	111	40	12	4	32	50	9	M8	0.83 in	0.1875 in	1/4-20 x0.63	
	AD3	70	15.5	0.875 in	105	8		156	60	16	5	50	70	11	M10	0.96 in			
	AD4	100	16	1.375 in	130	13		219	80	20	5	70	95.5	13.5	M12	1.51 in			0.3125 in
	AD5	120	24	1.625 in	180	11		292	110	20	10	70	126	13.5	M12	1.79 in			0.375 in
R/RX.97	AD3	70	15.5	0.875 in	105	8	300	151	60	16	5	50	70	11	M10	0.96 in	0.1875 in	5/16-18 x0.87	
	AD4	100	16	1.375 in	130	13		214	80	20	5	70	95.5	13.5	M12	1.51 in			0.3125 in
	AD5	120	24	1.625 in	180	11		287	110	20	10	70	126	13.5	M12	1.79 in			0.375 in
	AD6	130	22.5	1.875 in	200	11		327	110	26	10	80	130.5	17.5	M16	2.09 in			0.50 in
R/RX.107	AD3	70	15.5	0.875 in	105	8	350	145	60	16	5	50	70	11	M10	0.96 in	0.1875 in	5/16-18 x0.87	
	AD4	100	16	1.375 in	130	13		208	80	20	5	70	95.5	13.5	M12	1.51 in			0.3125 in
	AD5	120	24	1.625 in	180	11		281	110	20	10	70	126	13.5	M12	1.79 in			0.375 in
	AD6	130	22.5	1.875 in	200	11		321	110	26	10	80	130.5	17.5	M16	2.09 in			0.50 in
R.137	AD4	100	16	1.375 in	130	13	400	201	80	20	5	70	95.5	13.5	M12	1.51 in	0.3125 in	1/2-13 x1.12	
	AD5	120	24	1.625 in	180	11		274	110	20	10	70	126	13.5	M12	1.79 in			0.375 in
	AD6	130	22.5	1.875 in	200	11		314	110	26	10	80	130.5	17.5	M16	2.09 in			0.50 in
	AD7	125	19	2.125 in	190	13		308	110	30	10	90	133	22	M20	2.35 in			3/4-10 x1.61
R.147	AD4	100	16	1.375 in	130	13	450	193	80	20	5	70	95.5	13.5	M12	1.51 in	0.3125 in	1/2-13 x1.12	
	AD5	120	24	1.625 in	180	11		266	110	20	10	70	126	13.5	M12	1.79 in			0.375 in
	AD6	130	22.5	1.875 in	200	11		306	110	26	10	80	130.5	17.5	M16	2.09 in			0.50 in
	AD7	125	19	2.125 in	190	13		300	110	30	10	90	133	22	M20	2.35 in			3/4-10 x1.61
R.167	AD4	100	16	1.375 in	130	13	550	383	140	19.5	15	110	155	13.5	M12	3.03 in	0.625 in	3/4-10 x1.61	
	AD5	120	24	1.625 in	180	11		258	110	20	10	70	126	13.5	M12	1.79 in	0.375 in		
	AD6	130	22.5	1.875 in	200	11		298	110	26	10	80	130.5	17.5	M16	2.09 in	0.50 in		
	AD7	125	19	2.125 in	190	13		292	110	30	10	90	133	22	M20	2.35 in	3/4-10 x1.61		
	AD8	120	22.5	2.750 in	210	5		374	140	19.5	15	110	155	13.5	M12	3.03 in	0.625 in		

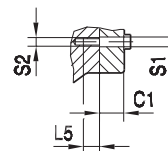
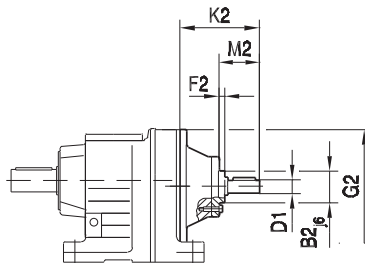
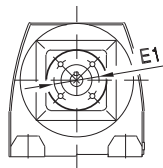
8.6.2 Input shaft - Metric

R.. AD..



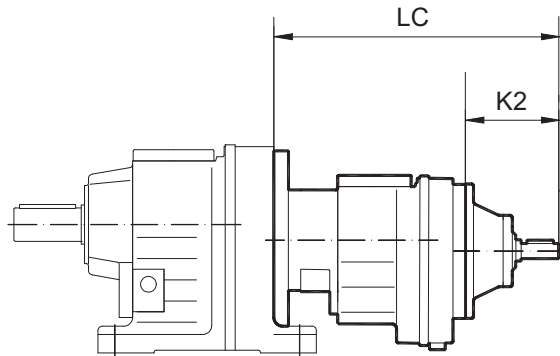
01 054 01 01

R.. AD../ZR



		B2	C1	E1	F2	G2	K2	L5	M2	S1	S2	D1	L1	L13	L14	T1	U1
R.27 R/RX.37	AD1	-	-	-	-	120	102	-	-	-	-	16	40	4	32	18	5
	AD2, AD2/ZR	55	13.5	80	8		130	12	50	9	M8	19	40	4	32	21.5	6
R/RX.47 R/RX.57 R/RX.67	AD2, AD2/ZR	55	13.5	80	8	160	123	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		159	16	60	11	M10	24	50	5	40	27	8
R/RX.77	AD2, AD2/ZR	55	13.5	80	8	200	116	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		151	16	60	11	M10	24	50	5	40	27	8
	AD4, AD4/ZR	100	16	130	13		224	20	95.5	13.5	M12	38	80	5	70	41	10
R/RX.87	AD2, AD2/ZR	55	13.5	80	8	250	111	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		156	16	70	11	M10	28	60	5	50	31	8
	AD4, AD4/ZR	100	16	130	13		219	20	95.5	13.5	M12	38	80	5	70	41	10
	AD5, AD5/ZR	120	24	180	11		292	20	126	13.5	M12	42	110	10	70	45	12
R/RX.97	AD3, AD3/ZR	70	15.5	105	8	300	151	16	70	11	M10	28	60	5	50	31	8
	AD4, AD4/ZR	100	16	130	13		214	20	95.5	13.5	M12	38	80	5	70	41	10
	AD5, AD5/ZR	120	24	180	11		287	20	126	13.5	M12	42	110	10	70	45	12
	AD6, AD6/ZR	130	22.5	200	11		327	26	130.5	17.5	M16	48	110	10	80	51.5	14
R/RX.107	AD3, AD3/ZR	70	15.5	105	8	350	145	16	70	11	M10	28	60	5	50	31	8
	AD4, AD4/ZR	100	16	130	13		208	20	95.5	13.5	M12	38	80	5	70	41	10
	AD5, AD5/ZR	120	24	180	11		281	20	126	13.5	M12	42	110	10	70	45	12
	AD6, AD6/ZR	130	22.5	200	11		321	26	130.5	17.5	M16	48	110	10	80	51.5	14
R.137	AD4, AD4/ZR	100	16	130	13	400	201	20	95.5	13.5	M12	38	80	5	70	41	10
	AD5, AD5/ZR	120	24	180	11		274	20	126	13.5	M12	42	110	10	70	45	12
	AD6, AD6/ZR	130	22.5	200	11		314	26	130.5	17.5	M16	48	110	10	80	51.5	14
	AD7, AD7/ZR	125	19	190	13		308	30	133	22	M20	55	110	10	90	59	16
R.147	AD4, AD4/ZR	100	16	130	13	450	193	20	95.5	13.5	M12	38	80	5	70	41	10
	AD5, AD5/ZR	120	24	180	11		266	20	126	13.5	M12	42	110	10	70	45	12
	AD6, AD6/ZR	130	22.5	200	11		306	26	130.5	17.5	M16	48	110	10	80	51.5	14
	AD7, AD7/ZR	125	19	190	13		300	30	133	22	M20	55	110	10	90	59	16
	AD8, AD8/ZR	120	22.5	210	5		383	19.5	155	13.5	M12	70	140	15	110	74.5	20
R.167	AD5, AD5/ZR	120	24	180	11	550	258	20	126	13.5	M12	42	110	10	70	45	12
	AD6, AD6/ZR	130	22.5	200	11		298	26	130.5	17.5	M16	48	110	10	80	51.5	14
	AD7, AD7/ZR	125	19	190	13		292	30	133	22	M20	55	110	10	90	59	16
	AD8, AD8/ZR	120	22.5	210	5		374	19.5	155	13.5	M12	70	140	15	110	74.5	20

8.7 R.. R.. AD.. [compound dimensions]

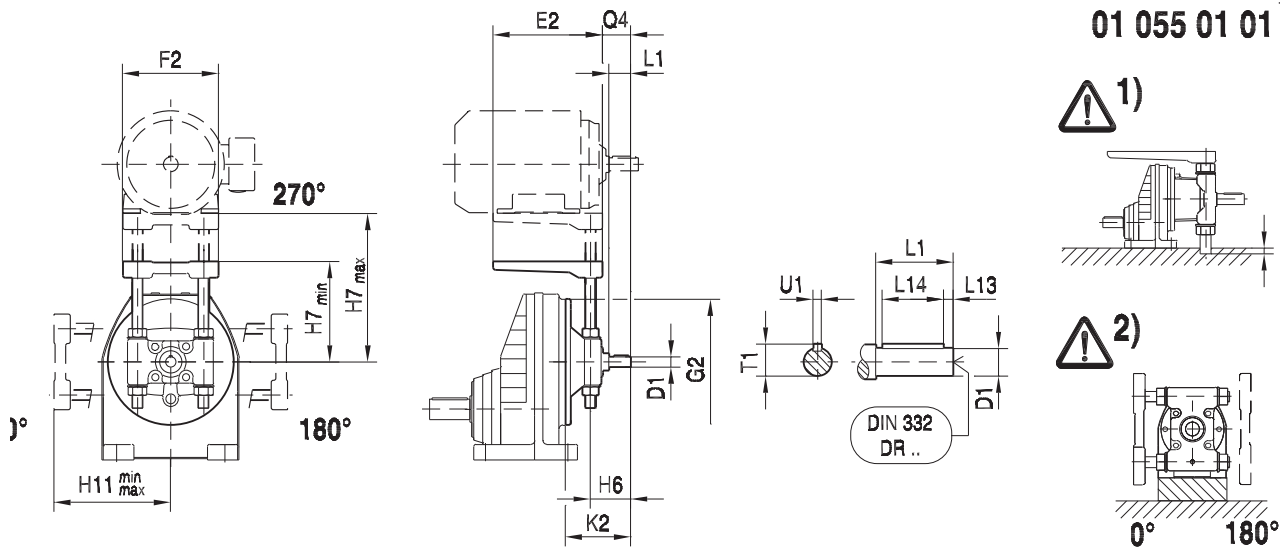


R_R_AD

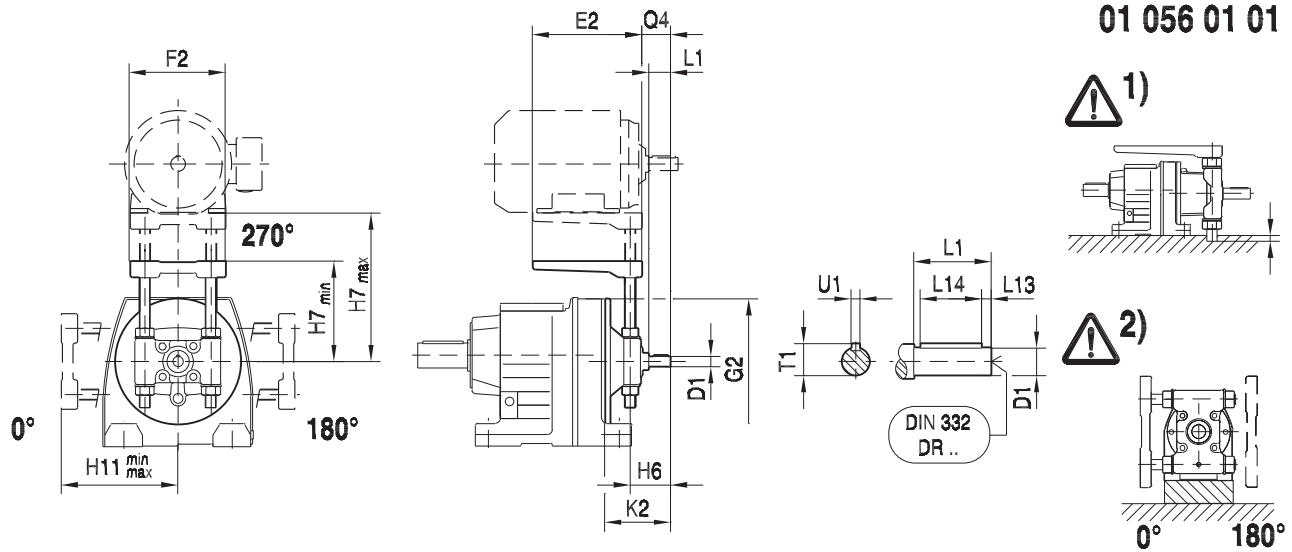
8

Large Unit	Small Unit	Adapter	K2	LC
R..47 R..57 R..67	R37	AD1	102	267
		AD2	130	295
R..77	R37	AD1	102	259
		AD2	130	287
R..87	R57	AD2	123	339
		AD3	159	375
R..97	R57	AD2	123	334
		AD3	159	370
R..107	R77	AD2	116	363
		AD3	151	398
		AD4	224	471
R..137	R77	AD2	116	356
		AD3	151	391
		AD4	224	464
R..147	R77	AD2	116	348
		AD3	151	383
		AD4	224	456
	R87	AD2	111	391
		AD3	156	436
		AD4	219	499
R..167	R97	AD5	292	572
		AD3	151	476
		AD4	214	539
	R107	AD5	287	612
		AD6	327	652
		AD3	145	527
		AD4	208	590
		AD5	281	663
		AD6	321	703

8.8 R/RX.. AD/P [dimensions]



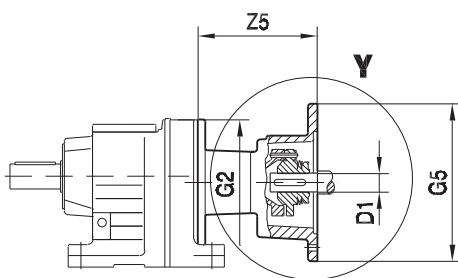
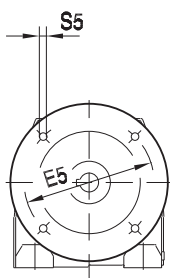
		E2	F2	G2	H6	H7 min	H7 max	H11 min	H11 max	K2	Q4	D1	L1	L13	L14	T1	U1	→131
RX..57	AD2/P	195	180	160	65	110	165	115	165	123	43	19	40	4	32	21.5	6	
	AD3/P	230	240		80	110	175	120	175	159	54	24	50	5	40	27	8	1), 2)
RX..67	AD2/P	195	180	160	65	110	165	125	165	123	43	19	40	4	32	21.5	6	
	AD3/P	230	240		80	110	175	130	175	159	54	24	50	5	40	27	8	1)
RX..77	AD2/P	195	180	200	65	130	165	140	200	116	43	19	40	4	32	21.5	6	
	AD3/P	230	240		80	135	175	145	175	151	54	24	50	5	40	27	8	
	AD4/P	345	291		118	145	210	160	210	224	83	38	80	5	70	41	10	1), 2)
RX..87	AD2/P	195	180	250	65	160	200	170	200	111	43	19	40	4	32	21.5	6	
	AD3/P	230	240		90	165	230	175	230	156	64	28	60	5	50	31	8	
	AD4/P	345	291		118	170	210	195	280	219	83	38	80	5	70	41	10	
	AD5/P	430	355		153	175	250	200	250	292	113	42	110	10	70	45	12	1), 2)
RX..97	AD3/P	230	240	300	90	185	230	205	320	151	64	28	60	5	50	31	8	
	AD4/P	345	291		118	195	280	220	280	214	83	38	80	5	70	41	10	
	AD5/P	430	355		153	195	250	225	325	287	113	42	110	10	70	45	12	
RX..107	AD3/P	230	240	350	90	210	320	225	320	145	64	28	60	5	50	31	8	
	AD4/P	345	291		118	220	280	270	360	208	83	38	80	5	70	41	10	
	AD5/P	430	355		153	220	325	275	325	281	113	42	110	10	70	45	12	
	AD6/P	495	457		163	245	310	250	310	321	114	48	110	10	80	51.5	14	



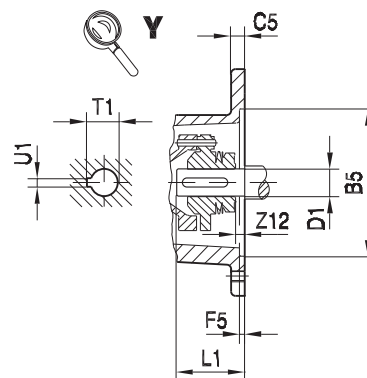
		E2	F2	G2	H6	H7 min	H7 max	H11 min	H11 max	K2	Q4	D1	L1	L13	L14	T1	U1	Δ_{131}
R..27	AD2/P	195	180	120	65	100	165	120	165	130	43	19	40	4	32	21.5	6	1), 2)
R..37	AD2/P	195	180	120	65	110	165	120	165	130	43	19	40	4	32	21.5	6	1), 2)
R..47	AD2/P	195	180	160	65	125	165	135	165	123	43	19	40	4	32	21.5	6	
	AD3/P	230	240		80	130	175	140	175	159	54	24	50	5	40	27	8	1), 2)
R..57	AD2/P	195	180	160	65	125	165	145	200	123	43	19	40	4	32	21.5	6	
	AD3/P	230	240		80	130	175	155	230	159	54	24	50	5	40	27	8	1), 2)
R..67	AD2/P	195	180	160	65	125	165	155	200	123	43	19	40	4	32	21.5	6	
	AD3/P	230	240		80	130	175	160	230	159	54	24	50	5	40	27	8	1), 2)
R..77	AD2/P	195	180	200	65	135	200	165	200	116	43	19	40	4	32	21.5	6	1)
	AD3/P	230	240		80	145	175	170	230	151	54	24	50	5	40	27	8	
	AD4/P	345	291		118	150	210	175	210	224	83	38	80	5	70	41	10	1), 2)
R..87	AD2/P	195	180	250	65	155	200	195	260	111	43	19	40	4	32	21.5	6	
	AD3/P	230	240		90	165	230	185	230	156	64	28	60	5	50	31	8	
	AD4/P	345	291		118	165	210	205	280	219	83	38	80	5	70	41	10	
	AD5/P	430	355		153	210	250	215	250	292	113	42	110	10	70	45	12	1), 2)
R..97	AD3/P	230	240	300	90	180	230	235	320	151	64	28	60	5	50	31	8	
	AD4/P	345	291		118	190	280	240	280	214	83	38	80	5	70	41	10	
	AD5/P	430	355		153	190	250	245	325	287	113	42	110	10	70	45	12	
R..107	AD3/P	230	240	350	90	230	320	230	320	145	64	28	60	5	50	31	8	
	AD4/P	345	291		118	230	280	265	360	208	83	38	80	5	70	41	10	
	AD5/P	430	355		153	225	325	270	325	281	113	42	110	10	70	45	12	1)
	AD6/P	495	457		163	245	310	250	310	321	114	48	110	10	80	51.5	14	
R..137	AD4/P	345	291	400	118	245	280	280	360	201	83	38	80	5	70	41	10	
	AD5/P	430	355		153	245	325	285	325	274	113	42	110	10	70	45	12	1)
	AD6/P	495	457		163	270	335	275	335	314	114	48	110	10	80	51.5	14	
R..147	AD4/P	345	291	450	118	270	360	315	360	193	83	38	80	5	70	41	10	
	AD5/P	430	355		153	275	325	330	405	266	113	42	110	10	70	45	12	
	AD6/P	495	457		163	295	360	310	360	306	114	48	110	10	80	51.5	14	
	AD7/P	650	570		170	300	365	300	365	300	112	55	110	10	90	59	16	3)
R..167	AD5/P	430	355	550	153	345	405	385	495	258	113	42	110	10	70	45	12	
	AD6/P	495	457		163	375	475	375	475	298	114	48	110	10	80	51.5	14	
	AD7/P	650	570		170	375	475	380	475	292	112	55	110	10	90	59	16	

8.9 R.. AR.. [dimensions]

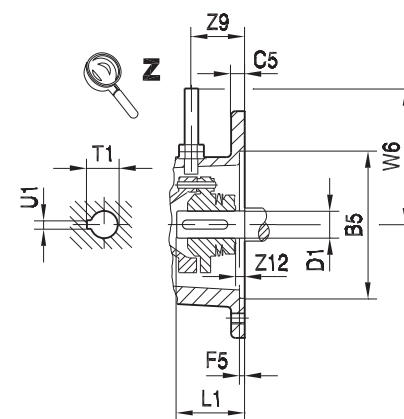
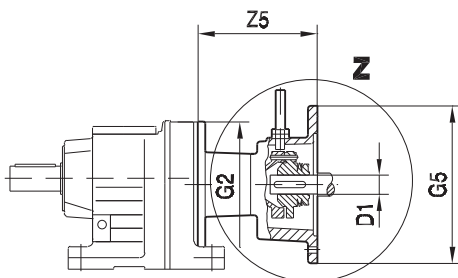
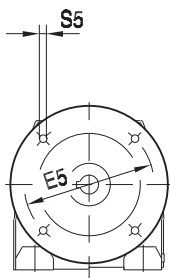
R.. AR..



01 052 02 01

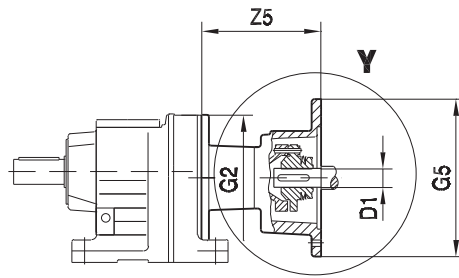
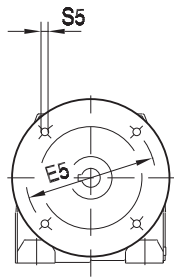


R.. AR../W

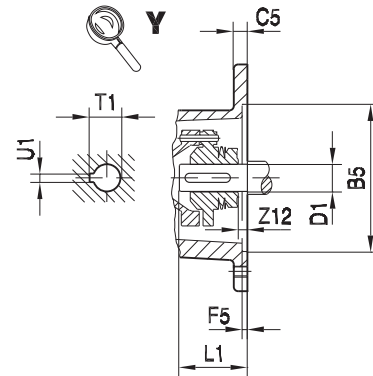


		B5	C5	E5	F5	G2	G5	S5	W6	Z5	Z9	Z12	D1	L1	T1	U1		
R..27 R..37	AR71	110	10	130	3.5	120	160	M8	120	104	37	0	14	30	16.3	5		
	AR80	130	12	165	4.5		200	M10		140.5			19	40	21.8	6		
	AR90						24	50		27.3			8					
R..47 R..57 R..67	AR71	110	10	130	3.5	160	160	M8	120	97.5	37	0	14	30	16.3	5		
	AR80	130	12	165	4.5		200	M10		134			19	40	21.8	6		
	AR90						24	50		27.3			8					
	AR100	180	15	215	5		250	M12		174.5			52	5.5	28	60	31.3	8
	AR112						28	60		31.3			8					
R..77	AR71	110	10	130	3.5	200	160	M8	120	91.5	37	0	14	30	16.3	5		
	AR80	130	12	165	4.5		200	M10		127			19	40	21.8	6		
	AR90						24	50		27.3			8					
	AR100	180	15	215	5		250	M12		166.5			52	5.5	28	60	31.3	8
	AR112						28	60		31.3			8					
	AR132S/M	230	16	265	5		300	M12		145			234	72	5	38	80	41.3
AR132ML	38					80	41.3	10										
R..87	AR80	130	12	165	4.5	250	200	M10	120	122	37	0	19	40	21.8	6		
	AR90						24	50					27.3	8				
	AR100	180	15	215	5		250	M12	130	161.5	52	5.5	28	60	31.3	8		
	AR112						28	60	31.3	8								
	AR132S/M	230	16	265	5		300	M12	145	229	72	5	38	80	41.3	10		
	AR132ML						38	80	41.3	10								
	AR160	250	18	300	6		350	M16	165	306.5	105	35	42	110	45.3	12		
AR180	48					110	51.8	14										

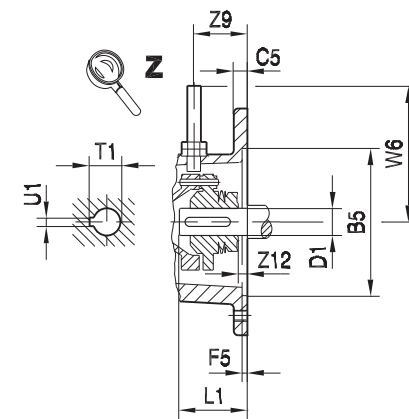
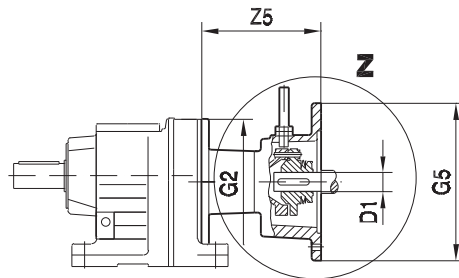
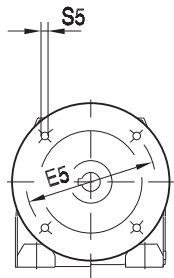
R.. AR..



01 053 02 01



R.. AR../W

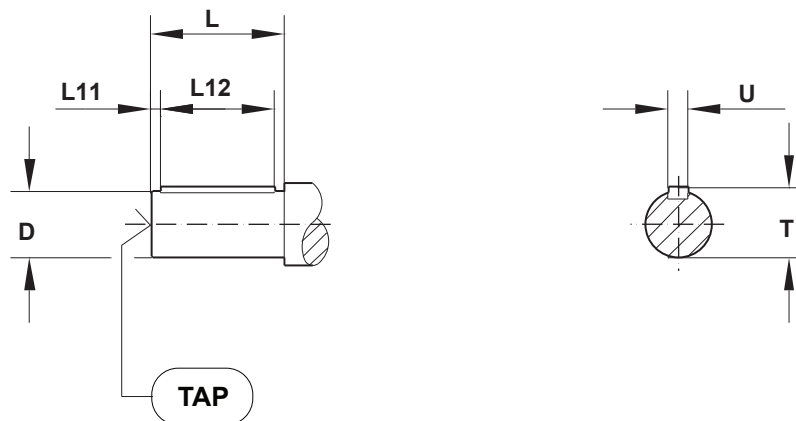


8

		B5	C5	E5	F5	G2	G5	S5	W6	Z5	Z9	Z12	D1	L1	T1	U1
R..97	AR100	180	15	215	5	300	250	M12	130	156.5	52	5.5	28	60	31.3	8
	AR112															
	AR132S/M	230	16	265	5		300	M12	145	224	72	5	38	80	41.3	10
	AR132ML															
	AR160															
AR180	250	18	300	6	350	M16	165	301.5	105	35	42	110	45.3	12		
		48	110	51.8	14											
R..107	AR100	180	15	215	5	350	250	M12	130	150.5	52	5.5	28	60	31.3	8
	AR112															
	AR132S/M	230	16	265	5		300	M12	145	218	72	5	38	80	41.3	10
	AR132ML															
	AR160															
AR180	250	18	300	6	350	M16	165	295.5	105	35	42	110	45.3	12		
		48	110	51.8	14											
R..137	AR132S/M	230	16	265	5	400	300	M12	145	211	72	5	38	80	41.3	10
	AR132ML															
	AR160	250	18	300	6		350	M16	165	288.5	105	35	42	110	45.3	12
	AR180												48	110	51.8	14
R..147	AR132S/M	230	16	265	5	450	300	M12	145	203	72	5	38	80	41.3	10
	AR132ML															
	AR160	250	18	300	6		350	M16	165	280.5	105	35	42	110	45.3	12
	AR180												48	110	51.8	14
R..167	AR160	250	18	300	6	550	350	M16	165	272.5	105	35	42	110	45.3	12
	AR180												48	110	51.8	14

8.10 Output shaft sizes

8.10.1 Solid shafts - Inch

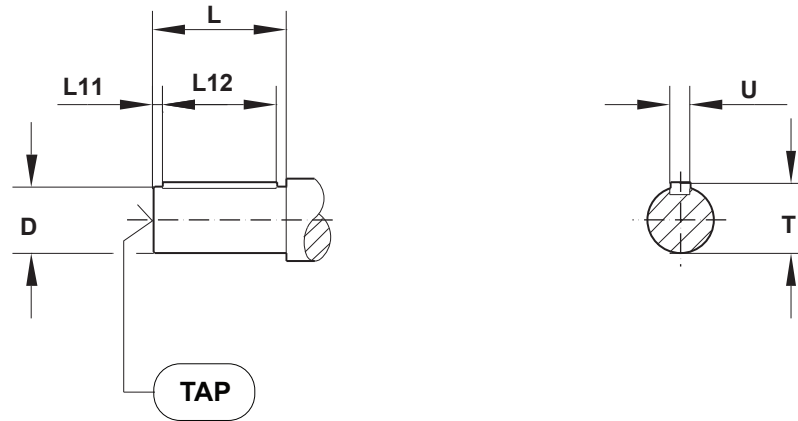


Model	All dimensions in inches							
	D	T	U	L ¹⁾	L11	L12	TAP	Change ²⁾
R..17	0.75	0.83	3/16	1.57	0.25	1-1/16	1/4 - 20 x 0.63	0
R..27	1	1.11	1/4	1.97	0.26	1-5/16	3/8 - 16 x 0.87	0
R..37	1	1.11	1/4	1.97	0.26	1-5/16	3/8 - 16 x 0.87	0
R..47	1.25	1.36	1/4	2.36	0.26	1-11/16	1/2 - 13 x 1.12	0
R..57	1.25	1.36	1/4	2.36	0.28	1-11/16	1/2 - 13 x 1.12	-0.4
	1.375	1.51	5/16	2.76	0.43	1-13/16	1/2 - 13 x 1.12	0
R..67	1.375	1.51	5/16	2.76	0.43	1-13/16	1/2 - 13 x 1.12	0
R..77	1.625	1.79	3/8	3.15	0.38	2-1/4	5/8 - 11 x 1.38	0
R..87	2.125	2.35	1/2	3.94	0.64	2-5/8	3/4 - 10 x 1.61	0
R..97	2.375	2.65	5/8	4.72	0.51	3-5/8	3/4 - 10 x 1.61	0
R..107	2.875	3.2	3/4	5.51	0.67	4-1/8	3/4 - 10 x 1.61	0
R..137	3.625	4.01	7/8	6.69	0.63	5-3/8	1 - 8 x 2.13	0
R..147	4.375	4.82	1	8.27	1.09	6	1 - 8 x 2.13	0
R..167	4.75	5.29	1-1/4	8.27	0.82	6-9/16	1 - 8 x 2.13	0
RX..57	0.75	0.83	3/16	1.57	0.23	1-1/16	1/4 - 20 x 0.63	0
RX..67	1	1.11	1/4	1.97	0.26	1-5/16	3/8 - 16 x 0.87	0
RX..77	1.25	1.36	1/4	2.36	0.26	1-11/16	1/2 - 13 x 1.12	0
	1.625	1.79	3/8	3.15	0.38	2-1/4	5/8 - 11 x 1.38	+0.79
RX..87	1.625	1.79	3/8	3.15	0.38	2-1/4	5/8 - 11 x 1.38	0
	1.75	1.92	3/8	3.54	0.38	2-3/4	5/8 - 11 x 1.38	+0.39
RX..97	2.125	2.35	1/2	3.94	0.64	2-5/8	3/4 - 10 x 1.61	0
RX..107	2.375	2.65	5/8	4.72	0.51	3-5/8	3/4 - 10 x 1.61	0

1) Longer shafts to match obsolete gear unit designs (ie: RF60/RF62/RF63) are available for flanged units.

2) The change in length, L, when compared to the standard shaft that is shown in dimension pages.

8.10.2 Solid shafts - Metric



Model	All dimensions in mm						
	D	T	U	L ¹⁾	L11	L12	TAP
R..17	20	22.5	6	40	4	32	M6 x 16
R..27	25	28	8	50	3.5	40	M10 x 22
R..37	25	28	8	50	3.5	50	M10 x 22
R..47	30	33	8	60	3.5	50	M10 x 22
R..57	30	33	8	60	7	50	M10 x 22
	35	38	10	70	7	56	M12 x 28
R..67	35	38	10	70	7	56	M12 x 28
R..77	40	43	12	80	5	70	M16 x 36
R..87	50	53.5	14	100	10	80	M16 x 36
R..97	60	64	18	120	5	110	M20 x 42
R..107	70	74.5	20	140	7.5	125	M20 x 42
R..137	90	95	25	170	5	160	M24 x 50
R..147	110	116	28	210	15	180	M24 x 50
R..167	120	127	32	210	5	200	M24 x 50
RX..57	20	22.5	6	40	3.5	32	M6 x 16
RX..67	25	28	8	50	3.5	40	M10 x 22
RX..77	30	33	8	60	3.5	50	M10 x 22
	40	43	12	80	5	70	M16 x 36
RX..87	40	43	12	80	5	70	M16 x 36
	45	48.5	14	90	5	80	M16 x 36
RX..97	50	53.5	14	100	10	80	M16 x 36
RX..107	60	64	18	120	5	110	M20 x 42

1) Longer shafts to match obsolete gear unit designs (ie: RF60/RF62/RF63) are available for flanged units.

