

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM12

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	56C	M60800
	Output Torque, in. lb.	166	194	222	248		
	Output HP (Max.)	1.32	1.08	.82	.68		
	Input HP (Max.)	1.51	1.23	.95	.80		
	OHL Output Shaft	455	430	415	390		
7.5	Output RPM	333	233	155	115	56C	M60801
	Output Torque, in.lb.	198	221	219	220		
	Output HP (Max.)	1.05	.82	.54	.40		
	Input HP (Max.)	1.23	1.00	.65	.50		
	OHL Output Shaft	430	410	410	415		
10	Output RPM	250	175	116	86	56C	M60802
	Output Torque, in.lb.	202	234	280	324		
	Output HP (Max.)	.80	.65	.52	.44		
	Input HP (Max.)	1.00	.80	.64	.55		
	OHL Output Shaft	430	405	365	320		
12.7	Output RPM	197	138	91	68	56C	M60803
	Output Torque, in.lb.	210	257	296	316		
	Output HP (Max.)	.66	.56	.43	.34		
	Input HP (Max.)	.82	.69	.54	.43		
	OHL Output Shaft	420	385	350	330		
15	Output RPM	167	117	77	57	56C	M60804
	Output Torque, in.lb.	195	227	271	308		
	Output HP (Max.)	.52	.42	.33	.28		
	Input HP (Max.)	.67	.55	.45	.38		
	OHL Output Shaft	430	410	375	340		
18	Output RPM	139	97	64	48	56C	M60805
	Output Torque, in.lb.	211	261	313	338		
	Output HP (Max.)	.46	.40	.32	.26		
	Input HP (Max.)	.61	.53	.42	.34		
	OHL Output Shaft	420	380	335	300		
20	Output RPM	125	87	58	43	56C	M60806
	Output Torque, in.lb.	203	245	301	341		
	Output HP (Max.)	.40	.34	.28	.23		
	Input HP (Max.)	.55	.50	.39	.33		
	OHL Output Shaft	425	400	350	295		
25	Output RPM	100	70	46	34	56C	M60807
	Output Torque, in.lb.	217	266	297	292		
	Output HP (Max.)	.34	.30	.22	.16		
	Input HP (Max.)	.50	.41	.33	.23		
	OHL Output Shaft	410	380	350	350		
30	Output RPM	83	58	39	29	56C	M60808
	Output Torque, in.lb.	190	242	295	338		
	Output HP (Max.)	.25	.22	.18	.15		
	Input HP (Max.)	.40	.36	.33	.26		
	OHL Output Shaft	435	395	350	300		
40	Output RPM	63	44	29	22	56C	M60809
	Output Torque, in.lb.	212	257	315	352		
	Output HP (Max.)	.21	.18	.14	.12		
	Input HP (Max.)	.36	.31	.25	.22		
	OHL Output Shaft	420	385	330	275		
50	Output RPM	50	35	23	17	56C	M60810
	Output Torque, in.lb.	208	257	272	267		
	Output HP (Max.)	.16	.14	.10	.07		
	Input HP (Max.)	.30	.27	.19	.15		
	OHL Output Shaft	420	385	360	380		
60	Output RPM	42	29	19	14	56C	*
	Output Torque, in.lb.	210	204	197	194		
	Output HP (Max.)	.14	.09	.06	.04		
	Input HP (Max.)	.27	.19	.13	.10		
	OHL Output Shaft	420	425	430	430		

OHL output shaft value shown is lbs. (maximum allowed).

*Made to Order

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM16

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	56C	M60812
	Output Torque, in.lb.	303	439	610	613		
	Output HP (Max.)	2.41	2.44	2.25	1.67	140TC	M60848
	Input HP (Max.)	2.65	2.68	2.48	1.87		
	OHL Output Shaft	560	590	630	700		
7.5	Output RPM	333	233	155	115	56C	M60813
	Output Torque, in.lb.	365	469	469	469		
	Output HP (Max.)	1.93	1.74	1.15	.85	140TC	M60849
	Input HP (Max.)	2.18	2.00	1.32	1.00		
	OHL Output Shaft	630	680	790	860		
10	Output RPM	250	175	116	86	56C	M60814
	Output Torque, in.lb.	436	583	695	743		
	Output HP (Max.)	1.73	1.62	1.28	1.02	140TC	M60850
	Input HP (Max.)	2.00	1.88	1.51	1.21		
	OHL Output Shaft	660	710	790	830		
12.7	Output RPM	197	138	91	68	56C	M60815
	Output Torque, in.lb.	449	591	702	809		
	Output HP (Max.)	1.41	1.30	1.02	.87	140TC	M60851
	Input HP (Max.)	1.66	1.54	1.24	1.08		
	OHL Output Shaft	700	760	850	760		
15	Output RPM	167	117	77	57	56C	M60816
	Output Torque, in.lb.	467	618	710	811		
	Output HP (Max.)	1.24	1.14	.87	.74	140TC	M60852
	Input HP (Max.)	1.50	1.38	1.09	.93		
	OHL Output Shaft	750	810	850	760		
18	Output RPM	139	97	64	48	56C	M60817
	Output Torque, in.lb.	482	608	720	812		
	Output HP (Max.)	1.06	.94	.74	.62	140TC	M60853
	Input HP (Max.)	1.32	1.18	.95	.82		
	OHL Output Shaft	800	830	860	740		
20	Output RPM	125	87	58	43	56C	M60818
	Output Torque, in.lb.	508	601	721	824		
	Output HP (Max.)	1.01	.83	.66	.56	140TC	M60854
	Input HP (Max.)	1.26	1.08	.87	.76		
	OHL Output Shaft	820	900	860	740		
25	Output RPM	100	70	46	34	56C	M60819
	Output Torque, in.lb.	532	612	743	759		
	Output HP (Max.)	.84	.68	.55	.41	140TC	M60855
	Input HP (Max.)	1.09	.90	.75	.58		
	OHL Output Shaft	880	930	840	810		
30	Output RPM	83	58	39	29	56C	M60820
	Output Torque, in.lb.	483	559	675	769		
	Output HP (Max.)	.64	.52	.41	.35	140TC	M60856
	Input HP (Max.)	.90	.75	.62	.55		
	OHL Output Shaft	920	960	920	810		
40	Output RPM	63	44	29	22	56C	M60821
	Output Torque, in.lb.	523	596	720	818		
	Output HP (Max.)	.52	.41	.33	.28	140TC	M60857
	Input HP (Max.)	.78	.64	.53	.47		
	OHL Output Shaft	960	950	860	740		
50	Output RPM	50	35	23	17	56C	M60822
	Output Torque, in.lb.	539	620	646	659		
	Output HP (Max.)	.43	.34	.24	.18	140TC	M60858
	Input HP (Max.)	.67	.57	.41	.33		
	OHL Output Shaft	960	940	940	930		
60	Output RPM	42	29	19	14	56C	M60823
	Output Torque, in.lb.	499	496	491	481		
	Output HP (Max.)	.33	.23	.15	.11	140TC	M60859
	Input HP (Max.)	.55	.40	.28	.21		
	OHL Output Shaft	960	960	960	960		

OHL output shaft value shown is lbs. (maximum allowed).

APG

MASTER XL

MOTO DRIVE

ULTIMA



XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM21

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	56C	M60824
	Output Torque, in.lb.	583	770	1094	1321		
	Output HP (Max.)	4.63	4.28	4.03	3.61	140TC	M60860
	Input HP (Max.)	5.00	4.62	4.37	3.95		
	OHL Output Shaft	790	850	900	960		
7.5	Output RPM	333	233	155	115	56C	M60825
	Output Torque, in.lb.	626	894	1201	1198		
	Output HP (Max.)	3.31	3.31	2.95	2.18	140TC	M60861
	Input HP (Max.)	3.66	3.67	3.28	2.48		
	OHL Output Shaft	880	960	1050	1150		
10	Output RPM	250	175	116	86	56C	M60826
	Output Torque, in.lb.	763	949	1208	1364		
	Output HP (Max.)	3.03	2.64	2.23	1.86	140TC	M60862
	Input HP (Max.)	3.38	3.00	2.54	2.17		
	OHL Output Shaft	950	1050	1150	1200		
12.7	Output RPM	197	138	91	68	56C	M60827
	Output Torque, in.lb.	895	1079	1284	1478		
	Output HP (Max.)	2.80	2.37	1.87	1.59	140TC	M60863
	Input HP (Max.)	3.16	2.69	2.15	1.86		
	OHL Output Shaft	1000	1080	1200	1240		
15	Output RPM	167	117	77	57	56C	M60828
	Output Torque, in.lb.	885	1038	1246	1423		
	Output HP (Max.)	2.34	1.92	1.53	1.30	140TC	M60864
	Input HP (Max.)	2.70	2.26	1.84	1.59		
	OHL Output Shaft	1080	1180	1270	1240		
18	Output RPM	139	97	64	48	56C	M60829
	Output Torque, in.lb.	969	1105	1330	1499		
	Output HP (Max.)	2.14	1.71	1.36	1.14	140TC	M60865
	Input HP (Max.)	2.47	2.01	1.63	1.40		
	OHL Output Shaft	1100	1200	1260	1240		
20	Output RPM	125	87	58	43	56C	M60830
	Output Torque, in.lb.	940	1096	1307	1502		
	Output HP (Max.)	1.87	1.52	1.20	1.03	140TC	M60866
	Input HP (Max.)	2.19	1.82	1.50	1.27		
	OHL Output Shaft	1150	1250	1260	1240		
25	Output RPM	100	70	46	34	56C	M60831
	Output Torque, in.lb.	1017	1188	1282	1283		
	Output HP (Max.)	1.62	1.32	.94	.70	140TC	M60867
	Input HP (Max.)	2.00	1.63	1.21	.92		
	OHL Output Shaft	1200	1270	1260	1260		
30	Output RPM	83	58	39	29	56C	M60832
	Output Torque, in.lb.	857	990	1173	1322		
	Output HP (Max.)	1.13	.92	.72	.60	140TC	M60868
	Input HP (Max.)	1.50	1.21	1.00	.84		
	OHL Output Shaft	1300	1290	1270	1260		
40	Output RPM	63	44	29	22	56C	M60833
	Output Torque, in.lb.	892	1026	1211	1390		
	Output HP (Max.)	.88	.71	.56	.47	140TC	M60869
	Input HP (Max.)	1.24	1.03	.84	.75		
	OHL Output Shaft	1300	1290	1270	1250		
50	Output RPM	50	35	23	17	56C	M60834
	Output Torque, in.lb.	895	1040	1234	1430		
	Output HP (Max.)	.71	.58	.45	.39	140TC	M60870
	Input HP (Max.)	1.05	.88	.75	.66		
	OHL Output Shaft	1300	1290	1270	1250		
60	Output RPM	42	29	19	14	56C	M60835
	Output Torque, in.lb.	918	1067	1113	1077		
	Output HP (Max.)	.61	.49	.34	.24	140TC	M60871
	Input HP (Max.)	.93	.79	.58	.44		
	OHL Output Shaft	1300	1290	1280	1280		

OHL output shaft value shown is lbs. (maximum allowed).

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM28

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	56C	M60836
	Output Torque, in.lb.	810	1096	1583	1931		
	Output HP (Max.)	6.43	6.09	5.83	5.27	140TC	M60872
	Input HP (Max.)	6.95	6.61	6.35	5.79		
	OHL Output Shaft	1360	1480	1630	1730		
7.5	Output RPM	333	233	155	115	56C	M60837
	Output Torque, in.lb.	1059	1461	1866	2314		
	Output HP (Max.)	5.60	5.41	4.58	4.21	140TC	M60873
	Input HP (Max.)	6.13	5.94	5.06	4.74		
OHL Output Shaft	1500	1650	1800	1900	180TC	M60897	
10	Output RPM	250	175	116	86	56C	M60838
	Output Torque, in.lb.	1252	1644	2268	2869		
	Output HP (Max.)	4.97	4.57	4.18	3.92	140TC	M60874
	Input HP (Max.)	5.50	5.10	4.71	4.45		
OHL Output Shaft	1600	1750	1950	2100	180TC	M60898	
12.7	Output RPM	197	138	91	68	56C	M60839
	Output Torque, in.lb.	1392	1980	2615	3128		
	Output HP (Max.)	4.36	4.34	3.80	3.37	140TC	M60875
	Input HP (Max.)	5.00	5.00	4.34	3.88		
OHL Output Shaft	1750	1850	2100	2150	180TC	M60899	
15	Output RPM	167	117	77	57	56C	M60840
	Output Torque, in.lb.	1337	1754	2637	3064		
	Output HP (Max.)	3.54	3.25	3.24	2.79	140TC	M60876
	Input HP (Max.)	4.08	3.79	3.78	3.33		
OHL Output Shaft	1850	2000	2200	2150	180TC	M60900	
18	Output RPM	139	97	64	48	56C	M60841
	Output Torque, in.lb.	1494	2127	2859	3146		
	Output HP (Max.)	3.29	3.28	2.92	2.39	140TC	M60877
	Input HP (Max.)	3.84	3.83	3.46	2.89		
OHL Output Shaft	1900	2100	2170	2150	180TC	M60901	
20	Output RPM	125	87	58	43	56C	M60842
	Output Torque, in.lb.	1416	1873	2597	2967		
	Output HP (Max.)	2.81	2.60	2.39	2.03	140TC	M60878
	Input HP (Max.)	3.36	3.15	3.00	2.55		
OHL Output Shaft	2250	2230	2200	2150	180TC	M60902	
25	Output RPM	100	70	46	34	56C	M60843
	Output Torque, in.lb.	1642	2192	2772	2798		
	Output HP (Max.)	2.61	2.44	2.04	1.53	140TC	M60879
	Input HP (Max.)	3.16	3.00	2.55	2.00		
OHL Output Shaft	2100	2200	2180	2180	180TC	M60903	
30	Output RPM	83	58	39	29	56C	M60844
	Output Torque, in.lb.	1702	2311	2832	3190		
	Output HP (Max.)	2.25	2.14	1.74	1.45	140TC	M60880
	Input HP (Max.)	2.81	2.70	2.26	2.00		
OHL Output Shaft	2200	2200	2180	2130	180TC	M60904	
40	Output RPM	63	44	29	22	56C	M60845
	Output Torque, in.lb.	1537	1993	2699	2989		
	Output HP (Max.)	1.53	1.38	1.24	1.02	140TC	M60881
	Input HP (Max.)	2.09	2.00	1.80	1.54		
OHL Output Shaft	2250	2200	2180	2150	180TC	M60905	
50	Output RPM	50	35	23	17	56C	M60846
	Output Torque, in.lb.	1688	2211	2729	3046		
	Output HP (Max.)	1.34	1.23	1.01	.83	140TC	M60882
	Input HP (Max.)	2.00	1.80	1.55	1.35		
OHL Output Shaft	2240	2200	2180	2150	180TC	M60906	

OHL output shaft value shown is lbs. (maximum allowed).

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE WM40

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
5	Output RPM	500	350	232	172	180TC	M60922
	Output Torque, in.lb.	2475	3875	5156	6163	210TC	M60923
	Output HP (Max.)	19.64	21.53	18.99	16.83	250TC	*
	Input HP (Max.)	21.00	23.00	20.40	18.10		
	OHL Output Shaft	2600	2700	3000	3200		
7.5	Output RPM	333	233	155	115	180TC	M60908
	Output Torque, in.lb.	3684	4485	6137	6723	210TC	M60915
	Output HP (Max.)	14.62	16.61	15.07	12.24	250TC	*
	Input HP (Max.)	16.00	18.00	16.40	13.46		
	OHL Output Shaft	3100	3100	3300	3700		
10	Output RPM	250	175	116	86	180TC	M60924
	Output Torque, in.lb.	3479	5253	6425	6911	210TC	M60925
	Output HP (Max.)	13.80	14.59	11.83	9.43	250TC	*
	Input HP (Max.)	15.30	16.00	13.20	10.80		
	OHL Output Shaft	2750	3200	3700	3700		
12.7	Output RPM	197	138	91	68	180TC	M60909
	Output Torque, in.lb.	3475	5147	6247	6743	210TC	M60916
	Output HP (Max.)	10.88	11.28	9.08	7.26	250TC	*
	Input HP (Max.)	12.30	12.70	10.39	8.49		
	OHL Output Shaft	3400	3600	3700	3700		
15	Output RPM	167	117	77	57	180TC	M60910
	Output Torque, in.lb.	3770	5497	6452	6936	210TC	M60917
	Output HP (Max.)	9.97	10.18	7.92	6.31	250TC	*
	Input HP (Max.)	11.40	11.60	9.18	7.50		
	OHL Output Shaft	3500	3700	3700	3700		
18	Output RPM	139	97	64	48	180TC	M60911
	Output Torque, in.lb.	3734	5497	6481	6950	210TC	M60918
	Output HP (Max.)	8.23	8.48	6.63	5.27	250TC	*
	Input HP (Max.)	9.67	10.00	7.97	6.48		
	OHL Output Shaft	3800	3700	3700	3700		
25	Output RPM	100	70	46	34	180TC	M60912
	Output Torque, in.lb.	4573	5829	6792	7171	210TC	M60919
	Output HP (Max.)	7.26	6.48	5.00	3.92	250TC	*
	Input HP (Max.)	8.80	7.87	6.26	5.14		
	OHL Output Shaft	3700	3700	3700	3700		
30	Output RPM	83	58	39	29	180TC	M61220
	Output Torque, in.lb.	4167	5433	6273	6725	210TC	M61221
	Output HP (Max.)	5.51	5.03	3.85	3.06	250TC	M*
	Input HP (Max.)	6.98	6.45	5.15	4.19		
	OHL Output Shaft	3800	3700	3700	3700		
40	Output RPM	63	44	29	22	180TC	M61222
	Output Torque, in.lb.	4556	5710	6591	7053	210TC	M61223
	Output HP (Max.)	4.52	3.97	3.03	2.41	250TC	*
	Input HP (Max.)	5.95	5.36	4.24	3.49		
	OHL Output Shaft	3800	3700	3700	3700		
50	Output RPM	50	35	23	17	180TC	M60913
	Output Torque, in.lb.	5103	5848	6843	7215	210TC	M60920
	Output HP (Max.)	4.05	3.25	2.52	1.97	250TC	*
	Input HP (Max.)	5.55	4.59	3.73	3.04		
	OHL Output Shaft	3700	3700	3700	3700		
60	Output RPM	42	29	19	14	180TC	M60914
	Output Torque, in.lb.	5259	5797	6768	7173	210TC	M60921
	Output HP (Max.)	3.48	2.68	2.08	1.63	250TC	*
	Input HP (Max.)	5.00	3.96	3.22	2.64		
	OHL Output Shaft	3700	3700	3700	3700		

OHL output shaft value shown is lbs. (maximum allowed)

*Made to Order

Above ratings also apply to WR40

XL Right Angle C-Face Reducers

SINGLE REDUCTION SIZE H419

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
15	Output RPM	167	117	77	57	180TC	M60151
	Output Torque, in.lb.	3904	4811	6329	7416		
	Output HP (Max.)	10.33	8.91	7.77	6.75	210TC	M60157
	Input HP (Max.)	11.60	10.18	9.04	8.02		
	OHL Output Shaft	3150	3050	2970	2830		
20	Output RPM	125	87	58	43	180TC	M60152
	Output Torque, in.lb.	3903	4985	6770	8121		
	Output HP (Max.)	7.74	6.92	6.23	5.54	210TC	M94770
	Input HP (Max.)	9.03	8.21	7.52	6.83		
	OHL Output Shaft	3150	3050	2900	2750		
30	Output RPM	83	58	39	29	180TC	M94771
	Output Torque, in.lb.	3819	5046	6241	7741		
	Output HP (Max.)	5.05	4.67	3.83	3.52	210TC	**
	Input HP (Max.)	6.36	5.98	5.14	5.00		
	OHL Output Shaft	3150	3070	2980	2770		
40	Output RPM	63	44	29	22	180TC	M94772
	Output Torque, in.lb.	4300	5450	6898	7986		
	Output HP (Max.)	4.27	3.79	3.18	2.73	210TC	**
	Input HP (Max.)	5.59	5.11	4.50	4.02		
	OHL Output Shaft	3110	3050	2900	2730		
50	Output RPM	50	35	23	17	180TC	M60153
	Output Torque, in.lb.	4654	5926	7589	7976		
	Output HP (Max.)	3.69	3.29	2.79	2.18	210TC	**
	Input HP (Max.)	5.03	4.63	4.13	3.41		
	OHL Output Shaft	3100	3000	2800	2740		

OHL output shaft value shown is lbs. (maximum allowed)

**Not Available

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM12

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
20	Output RPM	125	87	58	43	56C	*
	Output Torque, in.lb.	663	772	886	989		
	Output HP (Max.)	1.29	1.06	.80	.66	140TC	*
	Input HP (Max.)	1.51	1.23	1.00	.80		
	OHL Output Shaft	980	1080	1130	1120		
25	Output RPM	104	70	48	36	56C	M60191
	Output Torque, in.lb.	793	923	1036	1029	140TC	M60203
	Output HP (Max.)	1.29	1.06	.78	.58		
	Input HP (Max.)	1.51	1.23	.93	.70		
	OHL Output Shaft	1040	1130	1120	1120		
30	Output RPM	83	58	39	29	56C	M60192
	Output Torque, in.lb.	788	881	871	876	140TC	M60204
	Output HP (Max.)	1.03	.80	.53	.39		
	Input HP (Max.)	1.23	1.00	.65	.50		
	OHL Output Shaft	1100	1130	1130	1130		
36	Output RPM	69	48	32	24	56C	M60193
	Output Torque, in.lb.	939	1039	1038	1044	140TC	M60205
	Output HP (Max.)	1.03	.79	.53	.39		
	Input HP (Max.)	1.23	.96	.65	.49		
	OHL Output Shaft	1130	1120	1120	1120		
40	Output RPM	63	44	29	22	56C	M60194
	Output Torque, in.lb.	805	934	1117	1291	140TC	M60206
	Output HP (Max.)	.78	.64	.51	.43		
	Input HP (Max.)	1.00	.80	.64	.55		
	OHL Output Shaft	1140	1130	1130	740		
50	Output RPM	49	35	23	17	56C	M60195
	Output Torque, in.lb.	838	1024	1179	1257	140TC	M60207
	Output HP (Max.)	.64	.55	.42	.33		
	Input HP (Max.)	.82	.69	.53	.43		
	OHL Output Shaft	1130	1120	930	800		
60	Output RPM	42	29	19	14	56C	M60196
	Output Torque, in.lb.	998	1067	1059	1034	140TC	M60208
	Output HP (Max.)	.64	.48	.32	.23		
	Input HP (Max.)	.82	.61	.41	.30		
	OHL Output Shaft	1120	1120	1120	1120		
70	Output RPM	35	25	16	12	56C	M60197
	Output Torque, in.lb.	926	1056	1047	1048	140TC	M60209
	Output HP (Max.)	.51	.40	.26	.20		
	Input HP (Max.)	.67	.54	.37	.28		
	OHL Output Shaft	1130	1120	1120	1120		

* Made to Order

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM12

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
86	Output RPM	29	20	13.5	10	56C	M60198
	Output Torque, in.lb.	1000	1060	1066	1067		
	Output HP (Max.)	.45	.34	.22	.17	140TC	M60210
	Input HP (Max.)	.61	.46	.31	.24		
	OHL Output Shaft	1120	1120	1110	1110		
101	Output RPM	25	17	11.5	8.5	56C	M94405
	Output Torque, in.lb.	865	1062	1182	1182		
	Output HP (Max.)	.34	.29	.21	.16	140TC	M60211
	Input HP (Max.)	.50	.41	.31	.23		
	OHL Output Shaft	1130	1120	930	930		
121	Output RPM	21	14	9.6	7	56C	M94406
	Output Torque, in.lb.	758	964	1175	1345		
	Output HP (Max.)	.25	.22	.18	.15	140TC	M60212
	Input HP (Max.)	.40	.36	.29	.26		
	OHL Output Shaft	1140	1130	950	600		
144	Output RPM	17	12	8	6	56C	M61240
	Output Torque, in.lb.	903	1056	1073	1062		
	Output HP (Max.)	.25	.20	.14	.10	140TC	M60213
	Input HP (Max.)	.40	.34	.23	.18		
	OHL Output Shaft	1130	1120	1110	1120		
162	Output RPM	15	11	7	5	56C	M60199
	Output Torque, in.lb.	844	1023	1255	1401		
	Output HP (Max.)	.21	.17	.14	.12	140TC	M60214
	Input HP (Max.)	.36	.31	.25	.22		
	OHL Output Shaft	1140	1120	810	380		
192	Output RPM	13	9	6	4.5	56C	M94408
	Output Torque, in.lb.	1005	1065	1079	1069		
	Output HP (Max.)	.21	.15	.10	.07	140TC	M60215
	Input HP (Max.)	.36	.28	.19	.14		
	OHL Output Shaft	1120	1120	1120	1120		
240	Output RPM	10	7	4.8	3.6	56C	M60200
	Output Torque, in.lb.	987	1065	1081	1081		
	Output HP (Max.)	.16	.12	.08	.06	140TC	M60216
	Input HP (Max.)	.30	.24	.16	.13		
	OHL Output Shaft	1130	1120	1100	1100		
288	Output RPM	9	6	4	2	56C	M60201
	Output Torque, in.lb.	871	1005	938	1212		
	Output HP (Max.)	0.12	0.10	0.06	0.04	140TC	M60218
	Input HP (Max.)	0.25	0.20	0.13	0.09		
	OHL Output Shaft	1300	1285	1255	1115		
336	Output RPM	7.4	5	3.5	2.6	56C	M60202
	Output Torque, in.lb.	477	460	463	447		
	Output HP (Max.)	.06	.04	.02	.02	140TC	M60218
	Input HP (Max.)	.13	.10	.06	.05		
	OHL Output Shaft	1160	1160	1160	1160		

OHL output shaft value shown is lbs. (maximum allowed).

APG

MASTER XL

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XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM16

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
20	Output RPM	125	87	58	43	56C	M60000
	Output Torque, in.lb.	1726	2206	2427	2441		
	Output HP (Max.)	3.37	3.02	2.20	1.64	140TC	M60001
	Input HP (Max.)	3.75	3.37	2.48	1.87		
	OHL Output Shaft	1240	1460	1640	1640		
25	Output RPM	104	70	48	36	56C	t
	Output Torque, in.lb.	2050	2277	2426	2408	140TC	M94895
	Output HP (Max.)	3.40	2.64	1.87	1.37		
	Input HP (Max.)	3.78	3.00	2.11	1.57		
	OHL Output Shaft	1380	1540	1640	1640		
30	Output RPM	83	58	39	29	56C	M60220
	Output Torque, in.lb.	1869	1868	1868	1867	140TC	M94894
	Output HP (Max.)	2.43	1.70	1.13	.84		
	Input HP (Max.)	2.78	2.00	1.32	1.00		
	OHL Output Shaft	1480	1660	1700	1700		
36	Output RPM	69	48	32	24	56C	M60221
	Output Torque, in.lb.	2202	2201	2201	2199	140TC	M60231
	Output HP (Max.)	2.43	1.70	1.13	.84		
	Input HP (Max.)	2.78	2.00	1.32	1.00		
	OHL Output Shaft	1560	1640	1640	1640		
40	Output RPM	63	44	29	22	56C	M60222
	Output Torque, in.lb.	2008	2360	2765	2909	140TC	M94893
	Output HP (Max.)	1.96	1.61	1.25	.98		
	Input HP (Max.)	2.28	1.91	1.51	1.19		
	OHL Output Shaft	1650	1620	1150	850		
50	Output RPM	49	35	23	17	56C	M60223
	Output Torque, in.lb.	2036	2353	2794	2913	140TC	M60233
	Output HP (Max.)	1.57	1.27	1.00	.77		
	Input HP (Max.)	1.88	1.54	1.24	1.00		
	OHL Output Shaft	1680	1620	1100	820		
60	Output RPM	42	29	19	14	56C	M94850
	Output Torque, in.lb.	2398	2568	2638	2669	140TC	M94850
	Output HP (Max.)	1.57	1.18	.80	.60		
	Input HP (Max.)	1.88	1.43	1.00	.76		
	OHL Output Shaft	1600	1530	1400	1320		
70	Output RPM	35	25	16	12	56C	M60224
	Output Torque, in.lb.	2468	2526	2521	2628	140TC	M60235
	Output HP (Max.)	1.36	.98	.65	.50		
	Input HP (Max.)	1.67	1.21	.83	.65		
	OHL Output Shaft	1590	1570	1570	1420		

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM16

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
86	Output RPM	29	20	13.5	10	56C	M94889
	Output Torque, in.lb.	2351	2522	2645	2648		
	Output HP (Max.)	1.08	0.81	0.56	.42	140TC	M94889
	Input HP (Max.)	1.37	1.05	0.75	.58		
	OHL Output Shaft	1620	1570	1380	1380		
101	Output RPM	25	17	11.5	8.5	56C	M94411
	Output Torque, in.lb.	2196	2558	2897	2900		
	Output HP (Max.)	.86	.70	.52	.39	140TC	M60237
	Input HP (Max.)	1.09	.90	.70	.53		
	OHL Output Shaft	1640	1510	840	840		
121	Output RPM	21	14	9.6	7	56C	M94412
	Output Torque, in.lb.	1921	2227	2685	2887		
	Output HP (Max.)	.63	.51	.41	.32	140TC	M60238
	Input HP (Max.)	.90	.75	.62	.52		
	OHL Output Shaft	1700	1630	1300	840		
144	Output RPM	17	12	8	6	56C	M94413
	Output Torque, in.lb.	2264	2624	2715	2646		
	Output HP (Max.)	.63	.51	.35	.25	140TC	M60239
	Input HP (Max.)	.90	.75	.54	.41		
	OHL Output Shaft	1640	1420	1250	1380		
162	Output RPM	15	11	7	5	56C	M60226
	Output Torque, in.lb.	2080	2374	2867	2893		
	Output HP (Max.)	.51	.41	.32	.24	140TC	M60240
	Input HP (Max.)	.78	.64	.53	.42		
	OHL Output Shaft	1670	1610	920	850		
192	Output RPM	13	9	6	4.5	56C	M94414
	Output Torque, in.lb.	2464	2647	2663	2630		
	Output HP (Max.)	.51	.38	.25	.19	140TC	M60241
	Input HP (Max.)	.78	.60	.42	.33		
	OHL Output Shaft	1590	1400	1350	1400		
240	Output RPM	10	7	4.8	3.6	56C	M60227
	Output Torque, in.lb.	2528	2667	2672	2660		
	Output HP (Max.)	.42	.31	.21	.15	140TC	M60242
	Input HP (Max.)	.67	.52	.37	.28		
	OHL Output Shaft	1600	1340	1340	1340		
288	Output RPM	8.7	6	4	3	56C	M94415
	Output Torque, in.lb.	2340	2324	2305	2309		
	Output HP (Max.)	.32	.22	.15	.11	140TC	M60243
	Input HP (Max.)	.55	.40	.28	.21		
	OHL Output Shaft	1620	1620	1620	1620		

OHL output shaft value shown is lbs. (maximum allowed).

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MASTER XL

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XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM21

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
20	Output RPM	125	87	58	43	56C	M60002
	Output Torque, in. lb.	3059	3610	4544	4977		
	Output HP (Max.)	5.98	4.94	4.12	3.35	140TC	M60003
	Input HP (Max.)	6.52	5.43	4.56	3.74		
	OHL Output Shaft	2150	2360	2680	2680		
25	Output RPM	104	70	48	36	56C	M60245
	Output Torque, in. lb.	3604	4238	4785	5848		
	Output HP (Max.)	5.98	4.92	3.68	3.34	140TC	M60256
	Input HP (Max.)	6.52	5.41	4.08	3.73		
	OHL Output Shaft	2250	2490	2720	2500		
30	Output RPM	83	58	39	29	56C	M60246
	Output Torque, in. lb.	3429	3966	4782	4770		
	Output HP (Max.)	4.47	3.62	2.89	2.14	140TC	M60257
	Input HP (Max.)	5.00	4.08	3.28	2.48		
	OHL Output Shaft	2400	2680	2720	2720		
36	Output RPM	69	48	32	24	56C	M60247
	Output Torque, in. lb.	4039	4671	5458	5618		
	Output HP (Max.)	4.47	3.62	2.80	2.14	140TC	M60258
	Input HP (Max.)	5.00	4.08	3.18	2.48		
	OHL Output Shaft	2500	2750	2600	2570		
40	Output RPM	63	44	29	22	56C	M60248
	Output Torque, in. lb.	3415	3973	4810	5429		
	Output HP (Max.)	3.34	2.72	2.18	1.83	140TC	M61257
	Input HP (Max.)	3.79	3.14	2.54	2.17		
	OHL Output Shaft	2670	2800	2720	2620		
50	Output RPM	49	35	23	17	56C	M60249
	Output Torque, in. lb.	3701	4297	5110	5882		
	Output HP (Max.)	2.85	2.32	1.83	1.56	140TC	M94892
	Input HP (Max.)	3.28	2.69	2.16	1.86		
	OHL Output Shaft	2820	2800	2670	2500		
60	Output RPM	42	29	19	14	56C	M60250
	Output Torque, in. lb.	4360	5062	6019	6399		
	Output HP (Max.)	2.85	2.32	1.83	1.44	140TC	M94891
	Input HP (Max.)	3.28	2.69	2.16	1.72		
	OHL Output Shaft	2800	2680	2460	2240		
70	Output RPM	35	25	16	12	56C	M60251
	Output Torque, in. lb.	4260	4869	5845	6287		
	Output HP (Max.)	2.36	1.88	1.50	1.20	140TC	M60260
	Input HP (Max.)	2.77	2.26	1.84	1.50		
	OHL Output Shaft	2780	2680	2470	2350		

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM21

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
86	Output RPM	29	20	13.5	10	56C	M60252
	Output Torque, in.lb.	4544	5182	6196	6211		
	Output HP (Max.)	2.09	1.67	1.32	.98	140TC	M94890
	Input HP (Max.)	2.47	2.01	1.62	1.24		
	OHL Output Shaft	2760	2640	2400	2400	180TC	M60277
101	Output RPM	25	17	11.5	8.5	56C	M94416
	Output Torque, in.lb.	4051	4729	5103	5107		
	Output HP (Max.)	1.58	1.29	.92	.69	140TC	M94416
	Input HP (Max.)	2.00	1.64	1.21	.92		
	OHL Output Shaft	2800	2730	2670	2670	180TC	M60278
121	Output RPM	21	14	9.6	7	56C	M61239
	Output Torque, in.lb.	3413	3940	4670	5263		
	Output HP (Max.)	1.11	.90	.71	.59	140TC	M60263
	Input HP (Max.)	1.50	1.21	1.00	.84		
	OHL Output Shaft	2860	2800	2740	2630	180TC	M60279
144	Output RPM	17	12	8	6	56C	M94418
	Output Torque, in.lb.	4021	4642	5502	6200		
	Output HP (Max.)	1.11	.90	.71	.59	140TC	M94418
	Input HP (Max.)	1.50	1.21	1.00	.84		
	OHL Output Shaft	2800	2750	2600	2400	180TC	M90280
162	Output RPM	15	11	7	5	56C	M60253
	Output Torque, in.lb.	3552	4087	4823	5536		
	Output HP (Max.)	.87	.70	.55	.46	140TC	M60255
	Input HP (Max.)	1.24	1.03	.84	.75		
	OHL Output Shaft	2850	2800	2720	2600	180TC	M60281
192	Output RPM	13	9	6	4.5	56C	M94419
	Output Torque, in.lb.	4184	4814	5681	6298		
	Output HP (Max.)	.87	.70	.55	.45	140TC	M94419
	Input HP (Max.)	1.24	1.03	.84	.72		
	OHL Output Shaft	2800	2720	2550	2380	180TC	M60282
240	Output RPM	10	7	4.8	3.6	56C	M60254
	Output Torque, in.lb.	4196	4879	5787	6444		
	Output HP (Max.)	.70	.57	.44	.37	140TC	M60267
	Input HP (Max.)	1.05	.88	.75	.63		
	OHL Output Shaft	2800	2700	2500	2200	180TC	M60283
288	Output RPM	8.7	6	4	3	56C	M94420
	Output Torque, in.lb.	4306	5004	5221	5053		
	Output HP (Max.)	.59	.48	.33	.24	140TC	M60268
	Input HP (Max.)	.93	.79	.58	.44		
	OHL Output Shaft	2790	2690	2660	2690	180TC	M60284

OHL output shaft value shown is lbs. (maximum allowed).

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MASTER XL

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XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM28

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
10	Output RPM	250	175	116	86	140TC	*
	Output Torque, in. lb.	3003	3688	4519	5026	180TC	*
	Output HP (Max.)	11.92	10.24	8.32	6.86	210TC	*
	Input HP (Max.)	12.98	11.25	9.21	7.67		
	OHL Output Shaft	3884	4307	4927	5309		
12.7	Output RPM	207	138	91	68	140TC	*
	Output Torque, in. lb.	3617	4442	5443	6054	180TC	*
	Output HP (Max.)	11.92	10.24	8.32	6.86	210TC	*
	Input HP (Max.)	12.98	11.25	9.21	7.67		
	OHL Output Shaft	4098	4541	5121	5601		
15	Output RPM	167	117	77	57	140TC	*
	Output Torque, in. lb.	3350	4119	4855	4827	180TC	*
	Output HP (Max.)	8.86	7.63	5.96	4.39	210TC	*
	Input HP (Max.)	9.79	8.49	6.69	5.04		
	OHL Output Shaft	4386	4862	5503	6044		
18	Output RPM	138	97	64	48	140TC	*
	Output Torque, in. lb.	4035	4962	5848	5814	180TC	*
	Output HP (Max.)	8.86	7.63	5.96	4.39	210TC	*
	Input HP (Max.)	9.79	8.49	6.69	5.04		
	OHL Output Shaft	4630	5126	5796	6342		
20	Output RPM	125	87	58	43	140TC	M60005
	Output Torque, in. lb.	5176	6818	8811	9643	180TC	M60006
	Output HP (Max.)	10.27	9.47	8.11	6.58	210TC	M60007
	Input HP (Max.)	11.21	10.41	8.98	7.40		
	OHL Output Shaft	4700	5200	5700	5800		
25	Output RPM	104	70	48	36	140TC	M60286
	Output Torque, in. lb.	6220	8199	9322	10,235	180TC	M60297
	Output HP (Max.)	10.35	9.55	7.20	5.86	210TC	M60313
	Input HP (Max.)	11.30	10.50	7.98	6.56		
	OHL Output Shaft	5000	5500	5700	5600		
30	Output RPM	83	58	39	29	140TC	M60287
	Output Torque, in. lb.	6700	8239	9710	9653	180TC	M60298
	Output HP (Max.)	8.86	7.63	5.96	4.39	210TC	M60314
	Input HP (Max.)	10.00	8.49	6.69	5.04		
	OHL Output Shaft	5300	5800	5700	5700		
36	Output RPM	69	48	32	24	140TC	M60288
	Output Torque, in. lb.	7988	9389	10,684	11,510	180TC	M60299
	Output HP (Max.)	8.86	7.29	5.50	4.39	210TC	M60315
	Input HP (Max.)	10.00	8.12	6.18	5.04		
	OHL Output Shaft	5500	5700	5600	5600		
40	Output RPM	63	44	29	22	140TC	M60289
	Output Torque, in. lb.	7258	8393	10,347	11,348	180TC	M60300
	Output HP (Max.)	7.20	5.83	4.76	3.87	210TC	M60316
	Input HP (Max.)	8.06	6.61	5.47	4.49		
	OHL Output Shaft	5800	5700	5600	5600		
50	Output RPM	49	35	23	17	140TC	M60290
	Output Torque, in. lb.	7713	8996	10,801	12,260	180TC	M60301
	Output HP (Max.)	6.04	4.93	3.93	3.30	210TC	M60317
	Input HP (Max.)	6.86	5.64	4.57	3.88		
	OHL Output Shaft	5800	5700	5600	5500		

* Made to Order

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM28

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
60	Output RPM	42	29	19	14	140TC	*
	Output Torque, in.lb.	9196	10,725	12,677	13,854	180TC	M94432
	Output HP (Max.)	6.04	4.93	3.86	3.13	210TC	M60318
	Input HP (Max.)	6.86	5.64	4.50	3.68	140TC	M60291
	OHL Output Shaft	5700	5600	5500	5400	180TC	M60303
70	Output RPM	35	25	16	12	210TC	M60319
	Output Torque, in.lb.	8904	10,506	12,588	14,319	140TC	M60291
	Output HP (Max.)	4.94	4.08	3.24	2.73	180TC	M60303
	Input HP (Max.)	5.75	5.00	3.87	3.33	210TC	M60319
	OHL Output Shaft	5700	5600	5500	5300	140TC	M60292
86	Output RPM	29	20	13.5	10	140TC	M60292
	Output Torque, in.lb.	9434	10,793	13,359	14,701	180TC	M60304
	Output HP (Max.)	4.36	3.49	2.87	2.34	210TC	M60320
	Input HP (Max.)	5.14	4.15	3.46	2.89	140TC	M94433
	OHL Output Shaft	5700	5600	5400	5200	180TC	M60305
101	Output RPM	25	17	11.5	8.5	210TC	M60321
	Output Torque, in.lb.	7858	9098	10,867	10,970	140TC	M94433
	Output HP (Max.)	3.12	2.53	2.00	1.50	180TC	M60305
	Input HP (Max.)	3.83	3.16	2.55	1.96	210TC	M60321
	OHL Output Shaft	5800	5700	5600	5600	140TC	M61241
121	Output RPM	21	14	9.6	7	140TC	M61241
	Output Torque, in.lb.	7966	9130	11,100	12,505	180TC	M60306
	Output HP (Max.)	2.63	2.11	1.70	1.42	210TC	M60322
	Input HP (Max.)	3.33	2.72	2.26	2.00	140TC	M94435
	OHL Output Shaft	5800	5700	5600	5500	180TC	M60307
144	Output RPM	17	12	8	6	210TC	M60323
	Output Torque, in.lb.	9497	10,885	13,235	14,910	140TC	M94435
	Output HP (Max.)	2.63	2.11	1.70	1.42	180TC	M60307
	Input HP (Max.)	3.33	2.72	2.26	2.00	210TC	M60323
	OHL Output Shaft	5700	5600	5500	5200	140TC	M60293
162	Output RPM	15	11	7	5	140TC	M60293
	Output Torque, in.lb.	7302	8605	10,581	11,716	180TC	M60308
	Output HP (Max.)	1.81	1.49	1.22	1.00	210TC	M60324
	Input HP (Max.)	2.51	2.14	1.80	1.54	140TC	M61243
	OHL Output Shaft	5800	5700	5600	5600	180TC	M60309
192	Output RPM	13	9	6	4.5	210TC	M60325
	Output Torque, in.lb.	8706	10,260	12,616	13,969	140TC	M61243
	Output HP (Max.)	1.81	1.49	1.22	1.00	180TC	M60309
	Input HP (Max.)	2.51	2.14	1.80	1.54	210TC	M60325
	OHL Output Shaft	5700	5600	5500	5400	140TC	M60294
240	Output RPM	10	7	4.8	3.6	140TC	M60294
	Output Torque, in.lb.	9152	10,393	12,755	14,236	180TC	M60310
	Output HP (Max.)	1.52	1.21	.98	.81	210TC	M60326
	Input HP (Max.)	2.20	1.81	1.55	1.35	140TC	M60294
	OHL Output Shaft	5700	5600	5500	5300	180TC	M60310
						210TC	M60326

OHL output shaft value shown is lbs. (maximum allowed).

* Made to Order

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM40

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
10	Output RPM	250	175	116	86	180TC	*
	Output Torque, in.lb.	6622	8187	10,150	12,054	180TC	*
	Output HP (Max.)	26.3	22.7	18.70	16.50	210TC	*
	Input HP (Max.)	28.44	24.64	20.42	18.06	210TC	*
	OHL Output Shaft	5879	6517	7344	8004	250TC	*
15	Output RPM	167	117	77.3	57.3	180TC	*
	Output Torque, in.lb.	7883	9800	12,028	13,177	180TC	*
	Output HP (Max.)	20.85	18.15	14.77	11.99	210TC	*
	Input HP (Max.)	22.90	20.30	16.41	13.46	210TC	*
	OHL Output Shaft	6623	7337	8277	8719	250TC	*
20	Output RPM	125	87	58	43	180TC	M60021
	Output Torque, in.lb.	10,745	15,659	20,212	24,024	180TC	M60021
	Output HP (Max.)	21.32	21.75	18.61	16.40	210TC	M60024
	Input HP (Max.)	23.20	23.70	20.40	17.90	210TC	M60024
	OHL Output Shaft	6200	6800	7600	8200	250TC	M61217
25	Output RPM	104	70	48	36	180TC	M60022
	Output Torque, in.lb.	12,356	18,008	22,784	24,989	180TC	M60022
	Output HP (Max.)	21.32	21.75	18.24	14.83	210TC	M60025
	Input HP (Max.)	23.20	23.70	20.00	16.30	210TC	M60025
	OHL Output Shaft	6500	7100	8000	8000	250TC	M61218
30	Output RPM	83	58	39	29	180TC	M60330
	Output Torque, in.lb.	14,006	19,599	24,058	26,353	180TC	M60330
	Output HP (Max.)	18.53	18.15	14.77	11.99	210TC	M60336
	Input HP (Max.)	20.40	20.00	16.40	13.48	210TC	M60336
	OHL Output Shaft	7000	7600	8100	7900	250TC	M60362
36	Output RPM	69	48	32	24	180TC	M60331
	Output Torque, in.lb.	16,341	22,866	25,467	26,122	180TC	M60331
	Output HP (Max.)	18.53	18.15	13.40	10.19	210TC	M60347
	Input HP (Max.)	20.40	20.00	15.00	11.46	210TC	M60347
	OHL Output Shaft	7200	7900	8000	7900	250TC	M60363
40	Output RPM	63	44	29	22	180TC	M60023
	Output Torque, in.lb.	15,925	21,524	25,186	27,091	180TC	M60023
	Output HP (Max.)	15.80	14.95	11.59	9.25	210TC	M60026
	Input HP (Max.)	17.60	16.70	13.20	10.80	210TC	M60026
	OHL Output Shaft	7600	8400	8000	7800	250TC	M61219
50	Output RPM	49	35	23	17	180TC	M60333
	Output Torque, in.lb.	17,757	21,870	25,125	27,119	180TC	M60333
	Output HP (Max.)	13.55	11.68	8.90	7.12	210TC	M60349
	Input HP (Max.)	15.50	13.40	10.39	8.49	210TC	M60349
	OHL Output Shaft	8200	8300	8100	7800	250TC	M60365
60	Output RPM	42	29	19	14	180TC	M60334
	Output Torque, in.lb.	20,489	25,234	26,716	29,230	180TC	M60334
	Output HP (Max.)	13.55	11.68	8.20	6.65	210TC	M60350
	Input HP (Max.)	15.50	13.40	9.59	7.94	210TC	M60350
	OHL Output Shaft	8400	8000	7900	7500	250TC	M60366

Above ratings also apply to CR40

* Made to Order

XL Right Angle C-Face Reducers

COMBINATION REDUCTION SIZE CM40

Ratio	Rating Data	RPM INPUT				FRAME SIZE	PART NUMBER
		2500	1750	1160	860		
70	Output RPM	35	25	16	12	180TC	M60335
	Output Torque, in.lb.	22118	25,783	26,557	26,795	210TC	M60351
	Output HP (Max.)	12.54	10.23	6.99	5.23	250TC	M60367
	Input HP (Max.)	14.5	11.89	8.28	6.33		
	OHL Output Shaft	8300	8000	7900	7900		
86	Output RPM	29	20	13.5	10	180TC	M60336
	Output Torque, in.lb.	22,220	23,358	27,036	26,707	210TC	M60352
	Output HP (Max.)	10.62	8.49	6.00	4.39	250TC	M60368
	Input HP (Max.)	12.60	10.12	7.50	5.53		
	OHL Output Shaft	8300	8000	7700	7700		
101	Output RPM	25	17	11.5	8.5	180TC	M60337
	Output Torque, in.lb.	20,814	22,851	26,623	28,110	210TC	M60353
	Output HP (Max.)	8.26	6.35	4.90	3.84	250TC	M60369
	Input HP (Max.)	10.16	7.87	6.26	5.14		
	OHL Output Shaft	8400	8200	7700	7600		
121	Output RPM	21	14	9.6	7	180TC	M61224
	Output Torque, in.lb.	19,432	21,295	24,590	26,362	210TC	M61225
	Output HP (Max.)	6.43	4.93	3.77	3.00	250TC	M61226
	Input HP (Max.)	8.74	6.45	5.15	4.19		
	OHL Output Shaft	8500	8400	8100	7900		
144	Output RPM	17	12	8	6	180TC	M61227
	Output Torque, in.lb.	22,509	24,667	27,344	27,692	210TC	M61228
	Output HP (Max.)	6.43	4.93	3.62	2.72	250TC	M61229
	Input HP (Max.)	8.74	6.45	5.00	3.81		
	OHL Output Shaft	8300	8100	7800	7800		
162	Output RPM	15	11	7	5	180TC	M61230
	Output Torque, in.lb.	20,231	22,384	25,837	27,647	210TC	M61231
	Output HP (Max.)	5.02	3.89	2.99	2.36	250TC	M61232
	Input HP (Max.)	6.70	5.36	4.24	3.49		
	OHL Output Shaft	8500	8300	8000	7700		
192	Output RPM	13	9	6	4.5	180TC	M61233
	Output Torque, in.lb.	23,392	25,882	27,868	28,289	210TC	M61234
	Output HP (Max.)	5.02	3.89	2.76	2.09	250TC	M61235
	Input HP (Max.)	6.70	5.36	3.94	3.10		
	OHL Output Shaft	8700	8000	7700	7600		
240	Output RPM	10	7	4.8	3.6	180TC	M60342
	Output Torque, in.lb.	23,721	25,932	29,401	27,778	210TC	M60358
	Output HP (Max.)	4.08	3.12	2.26	1.64	250TC	M60374
	Input HP (Max.)	5.69	4.50	3.43	2.60		
	OHL Output Shaft	8200	7900	7600	7600		
288	Output RPM	8.7	6	4	3	180TC	M60353
	Output Torque, in.lb.	23,792	26,228	27,658	28,000	210TC	M60359
	Output HP (Max.)	3.41	2.63	1.84	1.38	250TC	M60375
	Input HP (Max.)	5.00	3.96	3.00	2.29		
	OHL Output Shaft	8100	7900	7700	7700		

OHL output shaft value shown is lbs. (maximum allowed).
 Above ratings also apply to CR40.

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle Gearmotors

.33 HP

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN-LBS)	OUTPUT HP	PART NUMBER
350	5.0	FB56	WG12A	540	45	0.25	*
233	7.5	FB56	WG12A	525	66	0.24	*
175	10.0	FB56	WG12A	510	86	0.24	*
138	12.7	FB56	WG12A	490	113	0.24	*
117	15.0	FB56	WG12A	480	127	0.24	*
97	18.0	FB56	WG12A	467	152	0.24	*
87	20.0	FB56	WG12A	457	159	0.22	*
70	25.0	FB56	WG12A	422	209	0.23	*
58	30.0	FB56	WG12A	415	219	0.20	X75811
44	40.0	FB56	WG16A	982	280	0.19	*
35	50.0	FB56	WG16A	980	343	0.19	X75828
29	60.0	FB56	WG16A	977	396	0.18	*
25	70.0	FB56	CG12A	1155	603	0.23	*
20	86.0	FB56	CG12A	1150	724	0.23	*
17	101.0	FB56	CG12A	1140	832	0.23	*
14	121.0	FB56	CG12A	1140	874	0.20	X90556
12	144.0	FB56	CG12A	1120	1030	0.20	*
11	162.0	FB56	CG16A	1770	1147	0.20	*
9	192.0	FB56	CG16A	1760	1359	0.20	X91260
7	240.0	FB56	CG16A	1735	1608	0.19	*
6	288.0	FB56	CG16A	1700	1859	0.18	*

MOTOR INFO: TENV 1750 RPM, 3 PHASE, 60 HZ 230/460 VOLTS, STANDARD EFFICIENT

* Made to Order

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle Gearmotors

.50 HP

APG

MASTER XL

MOTO DRIVE

ULTIMA

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN-LBS)	OUTPUT HP	PART NUMBER
350	5.0	FC56	WG12A	520	73	0.41	*
233	7.5	FC56	WG12A	495	107	0.40	*
175	10.0	FC56	WG12A	472	139	0.39	X91147
138	12.7	FC56	WG12A	442	181	0.39	*
117	15.0	FC56	WG12A	425	204	0.38	*
97	18.0	FC56	WG12A	395	245	0.38	X75944
87	20.0	FC56	WG16A	390	262	0.36	X91653
70	25.0	FC56	WG16A	980	327	0.36	X75906
58	30.0	FC56	WG16A	978	368	0.34	X75907
44	40.0	FC56	WG16A	968	457	0.32	X91334
35	50.0	FC56	WG16A	960	542	0.30	X75913
29	60.0	FC56	WG21A	1315	653	0.30	*
25	70.0	FC56	CG12A	1130	969	0.37	*
20	86.0	FC56	CG16A	1770	1135	0.37	*
17	101.0	FC56	CG16A	1760	1356	0.37	*
14	121.0	FC56	CG16A	1750	1454	0.33	*
12	144.0	FC56	CG16A	1740	1713	0.33	*
11	162.0	FC56	CG16A	1710	1819	0.31	*
9	192.0	FC56	CG16A	1660	2154	0.31	X90539
7	240.0	FC56	CG16A	1320	2683	0.30	*
6	288.0	FC56	CG21A	2880	3062	0.30	*

MOTOR INFO: TENV 1750 RPM, 3 PHASE, 60 HZ 230/460 VOLTS, STANDARD EFFICIENT

* Made to Order

XL Right Angle Gearmotors

.75 HP

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN-LBS)	OUTPUT HP	PART NUMBER
350	5.0	FC56	WG12A	490	114	0.64	*
233	7.5	FC56	WG12A	450	168	0.62	*
175	10.0	FC56	WG12A	430	219	0.61	X91149
138	12.7	FC56	WG16A	920	278	0.61	*
117	15.0	FC56	WG16A	960	325	0.60	*
97	18.0	FC56	WG16A	980	377	0.58	X75949
87	20.0	FC56	WG16A	975	408	0.57	X91285
70	25.0	FC56	WG16A	965	505	0.56	X75901
58	30.0	FC56	WG16A	960	567	0.53	X75950
44	40.0	FC56	WG21A	1310	736	0.51	*
35	50.0	FC56	WG21A	1300	875	0.49	X75951
29	60.0	FC56	WG21A	1290	1004	0.47	*
25	70.0	FC56	CG16A	1740	1525	0.59	*
20	86.0	FC56	CG16A	1720	1766	0.57	*
17	101.0	FC56	CG16A	1680	2100	0.57	*
14	121.0	FC56	CG16A	2890	2395	0.55	*
12	144.0	FC56	CG16A	2880	2821	0.55	*
11	162.0	FC56	CG21A	2880	2931	0.50	*
9	192.0	FC56	CG21A	2860	3453	0.50	*
7	240.0	FC56	CG21A	2810	4104	0.48	*
6	288.0	FC56	CG21A	2690	4753	0.46	*

MOTOR INFO: TENV 1750 RPM, 3 PHASE, 60 HZ 230/460 VOLTS, STANDARD EFFICIENT

* Made to Order

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle Gearmotors

1.0 HP

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN--LBS)	OUTPUT HP	PART NUMBER
350	5.0	FC56	WG12A	460	156	0.87	*
233	7.5	FC56	WG12A	465	231	0.86	*
175	10.0	FC56	WG16A	810	301	0.84	*
138	12.7	FC56	WG16A	885	378	0.83	*
117	15.0	FC56	WG16A	920	441	0.82	*
97	18.0	FC56	WG16A	960	511	0.79	X80190
87	20.0	FC56	WG16A	960	554	0.77	X91291
70	25.0	FC56	WG21A	1310	710	0.79	*
58	30.0	FC56	WG21A	1307	811	0.75	X80220
44	40.0	FC56	WG21A	1292	995	0.69	X91317
35	50.0	FC56	CG16A	1740	1501	0.81	X80730
29	60.0	FC56	CG16A	1720	1768	0.81	*
25	70.0	FC56	CG16A	1680	2069	0.80	*
20	86.0	FC56	CG16A	1610	2396	0.77	*
17	101.0	FC56	CG21A	2880	2825	0.77	*
14	121.0	FC56	CG21A	2870	3244	0.74	*
12	144.0	FC56	CG21A	2840	3821	0.74	*
11	162.0	FC56	CG21A	2820	3963	0.68	*
9	192.0	FC56	CG21A	2740	4668	0.68	*
7	240.0	FC56	CG28A	5900	5555	0.65	*

MOTOR INFO: TENV 1750 RPM, 3 PHASE, 60 HZ 230/460 VOLTS, STANDARD EFFICIENT

* Made to Order

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle Gearmotors

1.5 HP

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN-LBS)	OUTPUT HP	PART NUMBER
350	5.0	FC145	WG16A	660	241	1.34	*
233	7.5	FC145	WG16A	720	354	1.31	*
175	10.0	FC145	WG16A	760	461	1.28	*
138	12.7	FC145	WG16A	820	577	1.26	*
117	15.0	FC145	WG21A	1315	681	1.26	*
97	18.0	FC145	WG21A	1308	818	1.26	X80280
87	20.0	FC145	WG21A	1300	898	1.25	*
70	25.0	FC145	WG21A	1290	1083	1.20	*
58	30.0	FC145	CG16A	1750	1409	1.28	X91504
48	36.0	FC145	CG16A	1730	1659	1.28	*
44	40.0	FC145	CG16A	1710	1837	1.26	*
35	50.0	FC145	CG16A	1640	2290	1.24	X91044
29	60.0	FC145	CG21A	2880	2772	1.27	*
25	70.0	FC145	CG21A	2870	3195	1.24	*
20	86.0	FC145	CG21A	2820	3834	1.24	*
17	101.0	FC145	CG21A	2780	4312	1.18	*
14	121.0	FC145	CG28A	5910	4895	1.13	*
12	144.0	FC145	CG28A	5900	5836	1.13	*
11	162.0	FC145	CG28A	5880	5932	1.03	*
9	192.0	FC145	CG28A	5830	7072	1.03	*
7	240.0	FC145	CG28A	5770	8542	1.00	*

MOTOR INFO: TENV 1750 RPM, 3 PHASE, 60 HZ 230/460 VOLTS, STANDARD EFFICIENT

* Made to Order

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle Gearmotors

2.0 HP

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN-LBS)	OUTPUT HP	PART NUMBER
350	5.0	FD145	WG16A	632	325	1.80	*
233	7.5	FD145	WG16A	635	479	1.78	*
175	10.0	FD145	WG21A	1130	629	1.75	*
138	12.7	FD145	WG21A	1190	798	1.75	*
117	15.0	FD145	WG21A	1270	916	1.70	*
97	18.0	FD145	WG21A	1285	1099	1.70	X90721
87	20.0	FD145	CG16A	1760	1293	1.77	*
70	25.0	FD145	CG16A	1740	1523	1.77	*
58	30.0	FD145	CG16A	1750	1909	1.74	X91509
48	36.0	FD145	CG16A	1640	2201	1.70	*
44	40.0	FD145	CG21A	2900	2502	1.71	*
35	50.0	FD145	CG21A	2870	3170	1.71	*
29	60.0	FD145	CG21A	2840	3734	1.71	*
25	70.0	FD145	CG21A	2790	4296	1.66	*
20	86.0	FD145	CG21A	2670	5196	1.66	*
17	101.0	FD145	CG28A	5900	5660	1.57	*
14	121.0	FD145	CG28A	5850	6631	1.54	*
12	144.0	FD145	CG28A	5800	7905	1.54	*
11	162.0	FD145	CG28A	5800	8020	1.39	*
9	192.0	FD145	CG28A	5725	9563	1.39	*

MOTOR INFO: TENV 1750 RPM, 3 PHASE, 60 HZ 230/460 VOLTS, STANDARD EFFICIENT

* Made to Order

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle Gearmotors

3.0 HP

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN-LBS)	OUTPUT HP	PART NUMBER
350	5.0	182	WG21A	918	496	2.75	*
233	7.5	182	WG21A	995	728	2.70	*
175	10.0	182	WG21A	1025	953	2.65	*
138	12.7	182	WG28A	2055	1202	2.63	*
117	15.0	182	WG28A	2160	1378	2.55	*
97	18.0	182	WG28A	2230	1654	2.55	*
87	20.0	182	WG28A	2240	1781	2.47	*
70	25.0	182	WG28A	2220	2200	2.44	*
58	30.0	182	CG21A	2880	2898	2.64	*
48	36.0	182	CG21A	2860	3413	2.64	X91091
44	40.0	182	CG21A	2835	3792	2.59	*
35	50.0	182	CG28A	5925	4701	2.58	*
29	60.0	182	CG28A	5900	5605	2.58	*
25	70.0	182	CG28A	5850	6641	2.58	*
20	86.0	182	CG28A	5800	7968	2.58	*
17	101.0	182	CG28A	5760	8624	2.40	*
12	144.0	182	CG40A	8850	10,963	2.19	*
11	162.0	182	CG40A	8850	12,127	2.11	*
9	192.0	182	CG40A	8800	14,022	2.11	*
7	240.0	182	CG40A	8700	16,886	2.03	*
6	288.0	182	CG40A	8550	19,567	1.96	*

MOTOR INFO: TENV 1750 RPM, 3 PHASE, 60 HZ 230/460 VOLTS, STANDARD EFFICIENT

* Made to Order

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle Gearmotors

5.0 HP

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN-LBS)	OUTPUT HP	PART NUMBER
350	5.0	184	WG28A	1530	824	4.58	*
233	7.5	184	WG28A	1685	1225	4.54	*
175	10.0	184	WG28A	1790	1620	4.5	*
138	12.7	184	WG28A	1800	1955	4.28	*
117	15.0	184	CG28A	3830	2289	4.24	*
97	18.0	184	CG28A	3820	2691	4.15	*
87	20.0	184	CG21A	2860	3321	4.54	*
70	25.0	184	CG21A	2820	3912	4.54	*
58	30.0	184	CG28A	5910	4803	4.45	*
48	36.0	184	CG28A	5880	5727	4.45	*
44	40.0	184	CG28A	5860	6314	4.39	*
35	50.0	184	CG28A	5800	7955	4.36	*
29	60.0	184	CG28A	5720	9484	4.36	*
25	70.0	184	CG28A	5800	10,469	4.15	*
20	86.0	184	CG40A	8840	12,163	4.07	*
17	101.0	184	CG40A	8760	14,387	3.96	*
14	121.0	184	CG40A	8700	16,323	3.78	*
12	144.0	184	CG40A	8550	18,908	3.78	*
11	162.0	184	CG40A	8400	20,820	3.62	*
9	192.0	184	CG40A	8200	24,073	3.62	*

MOTOR INFO: TENV 1750 RPM, 3 PHASE, 60 HZ 230/460 VOLTS, STANDARD EFFICIENT

* Made to Order

APG

MASTER XL

MOTO DRIVE

ULTIMA

XL Right Angle Gearmotors

7.5 HP

OUTPUT RPM	RATIO	MOTOR FRAME	GEARCASE SIZE	OUTPUT OHL (LBS)	OUTPUT TORQUE (IN-LBS)	OUTPUT HP	PART NUMBER
350	5.0	213	WG40A	3100	1224	6.80	*
233	7.5	213	WG40A	3450	1820	6.74	*
175	10.0	213	CG28A	5400	2407	6.69	*
138	12.7	213	CG28A	5820	2996	6.55	*
117	15.0	213	CG28A	5800	3504	6.49	*
97	18.0	213	CG28A	5800	4117	6.35	*
87	20.0	213	CG28A	5920	4888	6.79	*
70	25.0	213	CG28A	5880	5827	6.79	*
58	30.0	213	CG28A	5820	7264	6.73	*
48	36.0	213	CG28A	5760	8661	6.73	*
35	50.0	213	CG40A	8850	11,789	6.42	*
25	70.0	213	CG40A	8700	16,025	6.36	*
20	86.0	213	CG40A	8590	18,605	6.23	*
17	101.0	213	CG40A	8350	21,959	6.04	*

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