



"C" Series – Concentric Helical MGS® Adjustable Speed Drives

Performance Specifications:

- Horsepower ratings – from 1/2 to 10
- Output speeds – available from 1139 to 1.2 RPM
- Speed range – 5:1 to 7:1
- Output torques – up to 59,782 in.lbs.
- NEMA frames – from 56C to 215TC

STOBER can offer a wider variety of sizes, ratios, and mounting positions than ever before by utilizing MGS Reducers and ComTrac Adjustable Speed Drives.

These versatile gear drives offer you performance, durability, and economy for a wide range of variable speed applications. High efficiency helical gearing keeps motor size to a minimum while conserving energy.

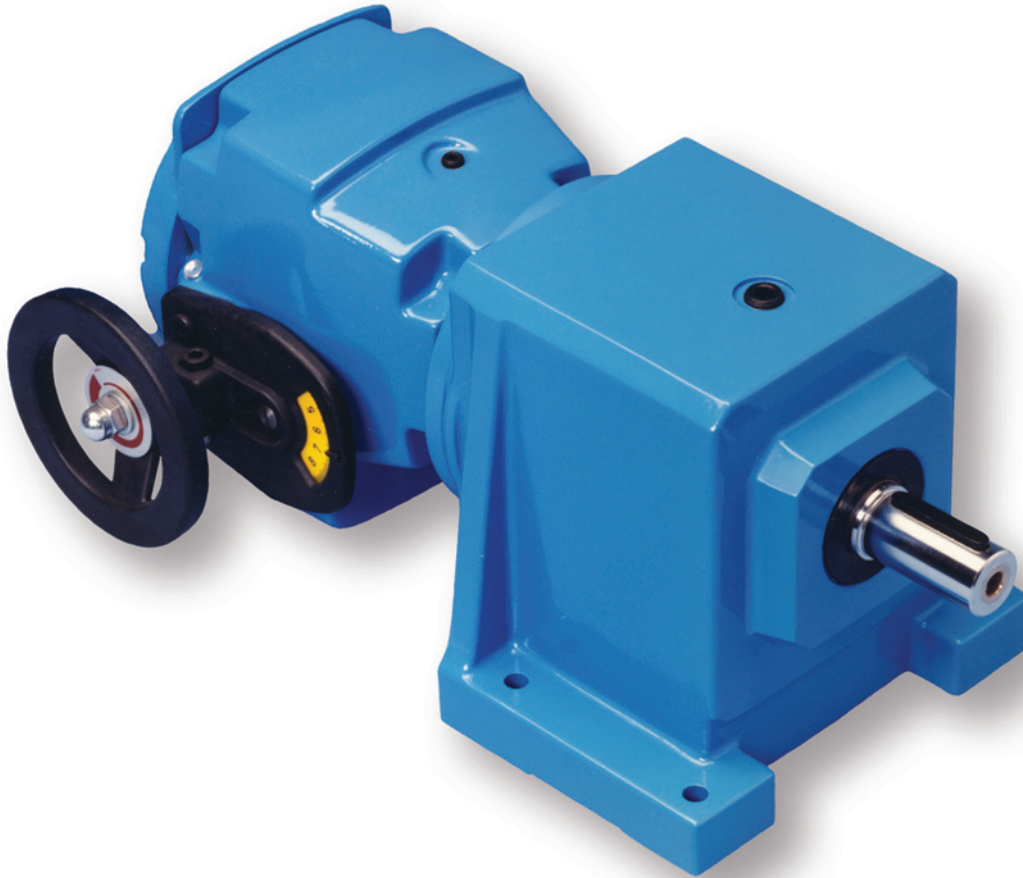


Table No. 1 "C"Series – Output Shaft Diameter

Base Module	Inches		Metric ⁽¹⁾
	Standard	Stainless Steel	
C002	.750	.750	20
C102/C103	1.000	1.000	25
C202/C203	1.250	1.250	30
C302/C303	1.250	1.250	40
C402/C403	1.625	1.625	40
C512/C513	1.625	1.625	40
C612/C613	2.125	2.125	50
C712/C713	2.375	–	60
C812/C813	2.875	–	70
C912/C913	3.625	–	90

⁽¹⁾ Contact STOBER Drives for availability.



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

.50 HP, 1750 RPM Motor

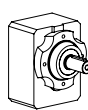
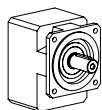
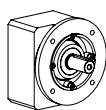
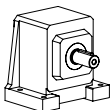
1,139	163	C002_0020	TD270K 050-050	1,139	22	163	129	163	129
1,045	149	C102_0022	TD270K 050-050	1,045	25	149	140	149	140
822	117	C002_0028	TD270K 050-050	822	31	117	178	117	178
742	106	C002_0031	TD270K 050-050	742	35	106	198	106	198
686	98	C002_0033	TD270K 050-050	686	37	98	214	98	214
593	85	C002_0038	TD270K 050-050	593	43	85	247	85	247
586	84	C102_0039	TD270K 050-050	586	44	84	250	84	250
548	78	C002_0041	TD270K 050-050	548	47	78	267	78	267
543	78	C102_0042	TD270K 050-050	543	47	78	270	78	270
486	69	C002_0047	TD270K 050-050	486	53	69	302	69	302
453	65	C102_0050	TD270K 050-050	453	57	65	324	65	324
449	64	C002_0051	TD270K 050-050	449	57	64	326	64	326
391	56	C002_0058	TD270K 050-050	391	66	56	375	56	375
387	55	C102_0059	TD270K 050-050	387	66	55	379	55	379
361	52	C002_0063	TD270K 050-050	361	71	52	406	52	406
295	42	C002_0077	TD270K 050-050	295	87	42	497	42	497
292	42	C102_0078	TD270K 050-050	292	88	42	502	42	502
276	39	C002_0082	TD270K 050-050	276	93	39	531	39	531
275	39	C102_0083	TD270K 050-050	275	93	39	532	39	532
247	35	C002_0092	TD270K 050-050	247	104	42	531	35	531
244	35	C102_0093	TD270K 050-050	244	105	35	601	35	601
221	32	C002_0105	TD270K 050-050	221	116	44	531	32	531
197	28	C002_0115	TD270K 050-050	197	130	45	531	28	531
181	26	C002_0125	TD270K 050-050	181	141	46	531	26	531
162	23	C002_0140	TD270K 050-050	162	159	48	531	23	531
145	21	C002_0155	TD270K 050-050	145	176	49	531	21	531
130	19	C002_0175	TD270K 050-050	130	197	49	531	19	531
110	16	C002_0210	TD270K 050-050	110	233	50	531	16	531
98	14	C002_0230	TD270K 050-050	98	261	51	531	14	531
97	14	C102_0240	TD270K 050-050	97	265	23	1,063	14	1,063
91	13	C002_0250	TD270K 050-050	91	281	51	531	13	531
91	13	C102_0250	TD270K 050-050	91	283	23	1,063	13	1,063
81	12	C002_0280	TD270K 050-050	81	315	51	531	12	531
80	11	C102_0280	TD270K 050-050	80	319	24	1,063	11	1,063
73	10	C002_0310	TD270K 050-050	73	352	50	531	10	531
73	10	C102_0310	TD270K 050-050	73	350	24	1,063	10	1,063
65	9.3	C002_0350	TD270K 050-050	65	394	50	531	9.3	531

¹⁾ Speed tolerance at rated load is ±3%. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted **F** – Round Flange **Q** – Square Flange **G** – Tapped Holes



See page 78 for mounting positions.
Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data

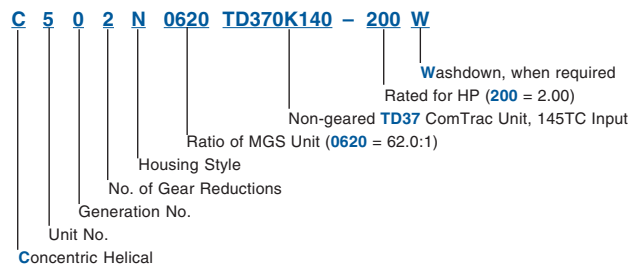


Speed Range		Part Number	Maximum		Transition ⁽²⁾		Minimum			
Output RPM ⁽¹⁾			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.		
Max.	Min.									
.50 HP, 1750 RPM Motor										
Continued										
65	9.3	C102_0350	TD270K	050-050	65	395	25	1,063	9.3	1,063
56	8.0	C202_0410	TD270K	050-050	56	460	14	1,772	8.0	1,772
55	7.8	C102_0420	TD270K	050-050	55	468	25	1,063	7.8	1,063
48	6.9	C102_0470	TD270K	050-050	48	528	25	1,063	6.9	1,063
46	6.6	C202_0490	TD270K	050-050	46	554	14	1,772	6.6	1,772
46	6.5	C302_0500	TD270K	050-050	46	560	7	3,100	6.5	3,100
40	5.8	C202_0560	TD270K	050-050	40	635	15	1,772	5.8	1,772
37	5.2	C302_0620	TD270K	050-050	37	697	8	2,932	5.2	2,932
36	5.2	C402_0630	TD270K	050-050	36	704	5	4,029	5.2	4,029
33	4.7	C302_0700	TD270K	050-050	33	786	8	3,100	4.7	3,100
30	4.3	C613_0760	TD270K	050-050	30	841	4	4,815	4.3	4,815
29	4.1	C203_0800	TD270K	050-050	29	883	15	1,772	4.1	1,772
28	4.0	C403_0810	TD270K	050-050	28	896	4	4,872	4.0	4,872
26	3.7	C613_0880	TD270K	050-050	26	972	4	5,566	3.7	5,566
25	3.6	C203_0910	TD270K	050-050	25	1,012	15	1,772	3.6	1,772
25	3.6	C303_0910	TD270K	050-050	25	1,007	8	3,100	3.6	3,100
25	3.6	C403_0900	TD270K	050-050	25	1,002	5	4,872	3.6	4,872
21	3.0	C203_1090	TD270K	050-050	21	1,211	15	1,772	3.0	1,772
21	3.0	C303_1080	TD270K	050-050	21	1,200	8	3,100	3.0	3,100
21	3.0	C503_1090	TD270K	050-050	21	1,205	3	6,900	3.0	6,900
21	3.1	C613_1060	TD270K	050-050	21	1,176	3	6,736	3.1	6,736
17	2.4	C203_1360	TD270K	050-050	17	1,509	15	1,772	2.4	1,772
17	2.4	C303_1350	TD270K	050-050	17	1,502	9	3,100	2.4	3,100
13	1.8	C303_1800	TD270K	050-050	13	2,002	9	3,100	1.8	3,100
13	1.8	C403_1800	TD270K	050-050	13	2,002	5	4,872	1.8	4,872
13	1.8	C503_1810	TD270K	050-050	13	2,004	3	7,086	1.8	7,086
13	1.9	C613_1750	TD270K	050-050	13	1,944	2	11,133	1.9	11,133
11	1.5	C503_2160	TD270K	050-050	11	2,395	4	7,086	1.5	7,086
11	1.5	C613_2130	TD270K	050-050	11	2,364	2	11,515	2.5	11,515
10	1.5	C303_2170	TD270K	050-050	10	2,408	8	3,100	1.5	3,100
10	1.5	C403_2170	TD270K	050-050	10	2,406	5	4,872	1.5	4,872
9	1.2	C613_2660	TD270K	050-050	9	2,955	2	11,515	1.2	11,515
8	1.2	C403_2700	TD270K	050-050	8	2,997	5	4,872	1.2	4,872
8	1.2	C503_2710	TD270K	050-050	8	3,001	4	7,086	1.2	7,086

Part No. Explanation

Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.





"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

.75 HP, 1750 RPM Motor

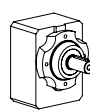
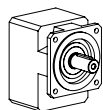
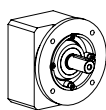
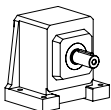
1,139	163	C002_0020	TD270K 050-075	1,139	33	282	129	163	129
1,045	149	C102_0022	TD270K 050-075	1,045	36	259	140	149	140
822	117	C002_0028	TD270K 050-075	822	46	204	178	117	178
742	106	C002_0031	TD270K 050-075	742	51	184	198	106	198
686	98	C002_0033	TD270K 050-075	686	55	170	214	98	214
593	85	C002_0038	TD270K 050-075	593	64	147	247	85	247
586	84	C102_0039	TD270K 050-075	586	65	145	250	84	250
548	78	C002_0041	TD270K 050-075	548	69	136	267	78	267
543	78	C102_0042	TD270K 050-075	543	70	135	270	78	270
486	69	C002_0047	TD270K 050-075	486	78	120	302	69	302
453	65	C102_0050	TD270K 050-075	453	84	112	324	65	324
449	64	C002_0051	TD270K 050-075	449	85	111	326	64	326
391	56	C002_0058	TD270K 050-075	391	97	97	375	56	375
387	55	C102_0059	TD270K 050-075	387	98	96	379	55	379
361	52	C002_0063	TD270K 050-075	361	105	89	406	52	406
295	42	C002_0077	TD270K 050-075	295	129	73	497	42	497
292	42	C102_0078	TD270K 050-075	292	130	72	502	42	502
276	39	C002_0082	TD270K 050-075	276	138	68	531	39	531
275	39	C102_0083	TD270K 050-075	275	138	68	532	39	532
247	35	C002_0092	TD270K 050-075	247	154	70	531	35	531
244	35	C102_0093	TD270K 050-075	244	156	60	601	35	601
221	32	C002_0105	TD270K 050-075	221	172	72	531	32	531
197	28	C002_0115	TD270K 050-075	197	193	73	531	28	531
181	26	C002_0125	TD270K 050-075	181	210	74	531	26	531
162	23	C002_0140	TD270K 050-075	162	235	75	531	23	531
145	21	C002_0155	TD270K 050-075	145	261	75	531	21	531
130	19	C002_0175	TD270K 050-075	130	293	75	531	19	531
128	18	C102_0175	TD270K 050-075	128	296	35	1,063	18	1,063
110	16	C002_0210	TD270K 050-075	110	346	75	531	16	531
109	16	C102_0210	TD270K 050-075	109	348	36	1,063	16	1,063
98	14	C002_0230	TD270K 050-075	98	388	74	531	14	531
97	14	C102_0240	TD270K 050-075	97	393	37	1,063	14	1,063
91	13	C002_0250	TD270K 050-075	91	417	74	531	13	531
91	13	C102_0250	TD270K 050-075	91	420	37	1,063	13	1,063
81	12	C002_0280	TD270K 050-075	81	468	73	531	12	531
80	11	C102_0280	TD270K 050-075	80	474	37	1,063	11	1,063
73	10	C002_0310	TD270K 050-075	73	522	72	531	10	531
73	10	C102_0310	TD270K 050-075	73	519	37	1,063	10	1,063

¹⁾ Speed tolerance at rated load is ±3%. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted **F** – Round Flange **Q** – Square Flange **G** – Tapped Holes



See page 78 for mounting positions.
Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data

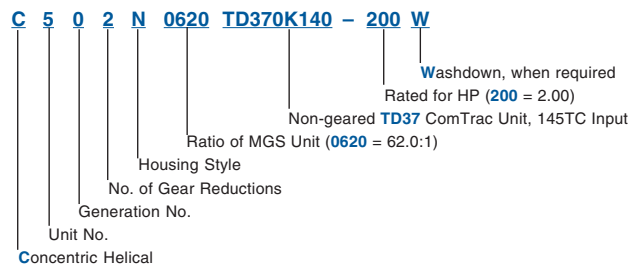


Speed Range Output RPM ⁽¹⁾		Part Number		Maximum		Transition ⁽²⁾		Minimum	
				RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.								
.75 HP, 1750 RPM Motor									
Continued									
65	9.3	C102_0350	TD270K 050-075	65	586	38	1,063	9.3	1,063
65	9.2	C202_0350	TD270K 050-075	65	588	22	1,772	9.2	1,772
56	8.0	C202_0410	TD270K 050-075	56	683	22	1,772	8.0	1,772
55	7.8	C102_0420	TD270K 050-075	55	695	38	1,063	7.8	1,063
48	6.9	C102_0470	TD270K 050-075	48	784	37	1,063	6.9	1,063
49	6.9	C202_0470	TD270K 050-075	49	783	22	1,772	6.9	1,772
46	6.6	C202_0490	TD270K 050-075	46	823	22	1,772	6.6	1,772
46	6.5	C302_0500	TD270K 050-075	46	832	12	3,100	6.5	3,100
40	5.8	C202_0560	TD270K 050-075	40	943	23	1,772	5.8	1,772
41	5.8	C302_0560	TD270K 050-075	41	938	12	3,100	5.8	3,100
37	5.2	C302_0620	TD270K 050-075	37	1,035	13	2,932	5.2	2,932
36	5.2	C402_0630	TD270K 050-075	36	1,045	9	4,029	5.2	4,029
33	4.7	C302_0700	TD270K 050-075	33	1,168	13	3,100	4.7	3,100
30	4.3	C613_0760	TD270K 050-075	30	1,249	7	4,815	4.3	4,815
29	4.1	C203_0800	TD270K 050-075	29	1,311	22	1,772	4.1	1,772
28	4.0	C303_0800	TD270K 050-075	28	1,325	13	3,100	4.0	3,100
28	4.0	C403_0810	TD270K 050-075	28	1,331	7	4,872	4.0	4,872
26	3.7	C613_0880	TD270K 050-075	26	1,444	6	5,566	3.7	5,566
25	3.6	C203_0910	TD270K 050-075	25	1,503	22	1,772	3.6	1,772
25	3.6	C303_0910	TD270K 050-075	25	1,495	13	3,100	3.6	3,100
25	3.6	C403_0900	TD270K 050-075	25	1,488	8	4,872	3.6	4,872
21	3.0	C303_1080	TD270K 050-075	21	1,783	13	3,100	3.0	3,100
21	3.0	C403_1080	TD270K 050-075	21	1,774	8	4,872	3.0	4,872
21	3.0	C503_1090	TD270K 050-075	21	1,790	5	6,900	3.0	6,900
21	3.1	C613_1060	TD270K 050-075	21	1,747	5	6,736	3.1	6,736
17	2.4	C303_1350	TD270K 050-075	17	2,231	13	3,100	2.4	3,100
17	2.4	C403_1350	TD270K 050-075	17	2,218	8	4,872	2.4	4,872
13	1.8	C303_1800	TD270K 050-075	13	2,973	12	3,100	1.8	3,100
13	1.8	C403_1800	TD270K 050-075	13	2,973	8	4,872	1.8	4,872
13	1.8	C503_1810	TD270K 050-075	13	2,976	5	7,086	1.8	7,086
13	1.9	C613_1750	TD270K 050-075	13	2,888	3	11,133	1.9	11,133
11	1.5	C503_2160	TD270K 050-075	11	3,557	6	7,086	1.5	7,086
11	1.8	C613_2130	TD270K 050-075	11	3,511	3	11,515	1.5	11,515
10	1.5	C403_2170	TD270K 050-075	10	3,574	8	4,872	1.5	4,872
9	1.2	C613_2660	TD270K 050-075	9	4,388	3	11,515	1.2	11,515
8	1.2	C403_2700	TD270K 050-075	8	4,451	8	4,872	1.2	4,872
8	1.2	C503_2710	TD270K 050-075	8	4,457	6	7,086	1.2	7,086

Part No. Explanation

Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.





"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

1.0 HP, 1750 RPM Motor

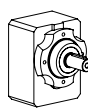
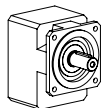
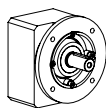
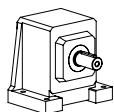
1,139	163	C002_0020	TD270K 140-100	1,139	46	411	129	163	129
1,045	149	C102_0022	TD270K 140-100	1,045	50	377	140	149	140
822	117	C002_0028	TD270K 140-100	822	63	296	178	117	178
742	106	C002_0031	TD270K 140-100	742	70	267	198	106	198
686	98	C002_0033	TD270K 140-100	686	76	247	214	98	214
593	85	C002_0038	TD270K 140-100	593	87	214	247	85	247
586	84	C102_0039	TD270K 140-100	586	88	211	250	84	250
548	78	C002_0041	TD270K 140-100	548	95	198	267	78	267
543	78	C102_0042	TD270K 140-100	543	95	196	270	78	270
486	69	C002_0047	TD270K 140-100	486	107	175	302	69	302
453	65	C102_0050	TD270K 140-100	453	115	163	324	65	324
449	64	C002_0051	TD270K 140-100	449	115	162	326	64	326
391	56	C002_0058	TD270K 140-100	391	133	141	375	56	375
387	55	C102_0059	TD270K 140-100	387	134	140	379	55	379
361	52	C002_0063	TD270K 140-100	361	144	130	406	52	406
295	42	C002_0077	TD270K 140-100	295	176	106	497	42	497
292	42	C102_0078	TD270K 140-100	292	178	105	502	42	502
276	39	C002_0082	TD270K 140-100	276	188	100	531	39	531
275	39	C102_0083	TD270K 140-100	275	188	99	532	39	532
247	35	C002_0092	TD270K 140-100	247	210	101	531	35	531
244	35	C102_0093	TD270K 140-100	244	213	88	601	35	601
221	32	C002_0105	TD270K 140-100	221	235	102	531	32	531
197	28	C002_0115	TD270K 140-100	197	263	102	531	28	531
181	26	C002_0125	TD270K 140-100	181	286	103	531	26	531
183	26	C102_0125	TD270K 140-100	183	284	66	803	26	803
162	23	C002_0140	TD270K 140-100	162	321	103	531	23	531
162	23	C102_0140	TD270K 140-100	162	320	58	906	23	906
145	21	C002_0155	TD270K 140-100	145	356	102	531	21	531
145	21	C102_0155	TD270K 140-100	145	358	52	1,012	21	1,012
130	19	C002_0175	TD270K 140-100	130	399	101	531	19	531
128	18	C102_0175	TD270K 140-100	128	404	50	1,063	18	1,063
110	16	C002_0210	TD270K 140-100	110	472	99	531	16	531
109	16	C102_0210	TD270K 140-100	109	475	51	1,063	16	1,063
98	14	C002_0230	TD270K 140-100	98	529	98	531	14	531
97	14	C102_0240	TD270K 140-100	97	536	51	1,063	14	1,063
96	14	C202_0240	TD270K 140-100	96	538	35	1,520	14	1,520
91	13	C102_0250	TD270K 140-100	91	573	51	1,063	13	1,063
92	13	C202_0250	TD270K 140-100	92	562	33	1,588	13	1,588
80	11	C102_0280	TD270K 140-100	80	646	51	1,063	11	1,063
81	12	C202_0280	TD270K 140-100	81	644	30	1,772	12	1,772

¹⁾ Speed tolerance at rated load is ±3%. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted **F** – Round Flange **Q** – Square Flange **G** – Tapped Holes



See page 78 for mounting positions.

Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

1.0 HP, 1750 RPM Motor

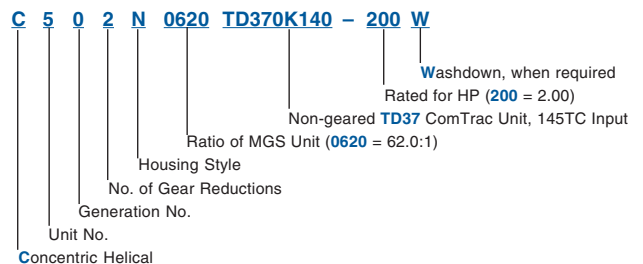
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73	10	C102_0310	TD270K 140-100	73	708	51	1,063	10	1,063
74	11	C202_0310	TD270K 140-100	74	699	30	1,772	11	1,772
65	9.3	C102_0350	TD270K 140-100	65	799	51	1,063	9.3	1,063
65	9.2	C202_0350	TD270K 140-100	65	802	31	1,772	9.2	1,772
56	8.0	C202_0410	TD270K 140-100	56	931	31	1,772	8.0	1,772
55	7.9	C302_0410	TD270K 140-100	55	942	20	2,665	7.9	2,665
55	7.8	C102_0420	TD270K 140-100	55	947	50	1,063	7.8	1,063
49	6.9	C202_0470	TD270K 140-100	49	1,067	31	1,772	6.9	1,772
49	7.0	C302_0470	TD270K 140-100	49	1,063	18	3,007	7.0	3,007
46	6.6	C202_0490	TD270K 140-100	46	1,122	31	1,772	6.6	1,772
46	6.5	C302_0500	TD270K 140-100	46	1,134	17	3,100	6.5	3,100
40	5.8	C202_0560	TD270K 140-100	40	1,286	30	1,772	5.8	1,772
41	5.8	C302_0560	TD270K 140-100	41	1,279	17	3,100	5.8	3,100
37	5.2	C302_0620	TD270K 140-100	37	1,411	19	2,932	5.2	2,932
36	5.2	C402_0630	TD270K 140-100	36	1,425	13	4,029	5.2	4,029
33	4.7	C302_0700	TD270K 140-100	33	1,592	18	3,100	4.7	3,100
33	4.7	C402_0700	TD270K 140-100	33	1,592	12	4,503	4.7	4,503
30	4.3	C613_0760	TD270K 140-100	30	1,703	11	4,815	4.3	4,815
28	4.0	C303_0800	TD270K 140-100	28	1,806	17	3,100	4.0	3,100
28	4.0	C403_0810	TD270K 140-100	28	1,815	11	4,872	4.0	4,872
26	3.7	C613_0880	TD270K 140-100	26	1,968	9	5,566	3.7	5,566
25	3.6	C303_0910	TD270K 140-100	25	2,038	17	3,100	3.6	3,100
25	3.6	C403_0900	TD270K 140-100	25	2,029	11	4,872	3.6	4,872
21	3.0	C303_1080	TD270K 140-100	21	2,430	17	3,100	3.0	3,100
21	3.0	C403_1080	TD270K 140-100	21	2,419	11	4,872	3.0	4,872
21	3.0	C503_1090	TD270K 140-100	21	2,440	8	6,900	3.0	6,900
21	3.1	C613_1060	TD270K 140-100	21	2,382	8	6,736	3.1	6,736
17	2.4	C303_1350	TD270K 140-100	17	3,042	17	3,100	2.4	3,100
17	2.4	C403_1350	TD270K 140-100	17	3,024	11	4,872	2.4	4,872
17	2.4	C503_1350	TD270K 140-100	17	3,040	7	7,086	2.4	7,086
13	1.8	C403_1800	TD270K 140-100	13	4,053	11	4,872	1.8	4,872
13	1.8	C503_1810	TD270K 140-100	13	4,057	8	7,086	1.8	7,086
13	1.9	C613_1750	TD270K 140-100	13	3,937	5	11,133	1.9	11,133
11	1.5	C503_2160	TD270K 140-100	11	4,849	8	7,086	1.5	7,086
11	1.5	C613_2130	TD270K 140-100	11	4,786	5	11,515	1.5	11,515
10	1.5	C403_2170	TD270K 140-100	10	4,872	10	4,872	1.5	4,872
9	1.2	C613_2660	TD270K 140-100	9	5,983	5	11,515	1.2	11,515
8	1.2	C503_2710	TD270K 140-100	8	6,076	7	7,086	1.2	7,086

Part No. Explanation

Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.





"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

1.5 HP, 1750 RPM Motor

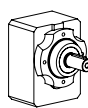
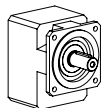
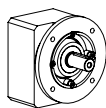
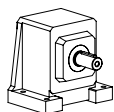
1,095	219	C002_0020	TD370K 140-150	1,095	70	419	189	219	189
1,005	201	C102_0022	TD370K 140-150	1,005	77	384	206	201	206
914	183	C102_0024	TD370K 140-150	914	84	349	226	183	226
847	169	C102_0026	TD370K 140-150	847	91	324	244	169	244
790	158	C002_0028	TD370K 140-150	790	97	302	262	158	262
713	143	C002_0031	TD370K 140-150	713	108	273	290	143	290
659	132	C002_0033	TD370K 140-150	659	117	252	314	132	314
649	130	C202_0034	TD370K 140-150	649	119	248	319	130	319
570	114	C002_0038	TD370K 140-150	570	135	218	362	114	362
563	113	C102_0039	TD370K 140-150	563	137	215	367	113	367
527	105	C002_0041	TD370K 140-150	527	146	202	392	105	392
522	104	C102_0042	TD370K 140-150	522	147	200	396	104	396
467	93	C002_0047	TD370K 140-150	467	165	179	442	93	442
435	87	C102_0050	TD370K 140-150	435	177	166	475	87	475
432	86	C002_0051	TD370K 140-150	432	178	165	479	86	479
376	75	C002_0058	TD370K 140-150	376	205	158	504	75	504
378	76	C202_0058	TD370K 140-150	378	204	144	547	76	547
372	74	C102_0059	TD370K 140-150	372	207	142	555	74	555
347	69	C002_0063	TD370K 140-150	347	222	159	503	69	503
345	69	C102_0063	TD370K 140-150	345	223	132	599	69	599
281	56	C102_0078	TD370K 140-150	281	274	107	737	56	737
266	53	C002_0082	TD370K 140-150	266	290	153	531	53	531
267	53	C202_0082	TD370K 140-150	267	288	102	774	53	774
265	53	C102_0083	TD370K 140-150	265	291	101	781	53	781
237	47	C002_0092	TD370K 140-150	237	325	152	531	47	531
235	47	C102_0093	TD370K 140-150	235	328	90	881	47	881
233	47	C202_0094	TD370K 140-150	233	330	89	887	47	887
212	42	C002_0105	TD370K 140-150	212	362	151	531	42	531
211	42	C102_0105	TD370K 140-150	211	365	81	981	42	981
190	38	C002_0115	TD370K 140-150	190	406	150	531	38	531
187	37	C102_0115	TD370K 140-150	187	412	75	1,063	37	1,063
186	37	C202_0120	TD370K 140-150	186	414	71	1,111	37	1,111
174	35	C002_0125	TD370K 140-150	174	442	148	531	35	531
176	35	C102_0125	TD370K 140-150	176	438	75	1,063	35	1,063
155	31	C002_0140	TD370K 140-150	155	495	146	531	31	531
156	31	C102_0140	TD370K 140-150	156	494	76	1,063	31	1,063
139	28	C102_0155	TD370K 140-150	139	553	76	1,063	28	1,063
143	29	C202_0155	TD370K 140-150	143	538	55	1,444	29	1,444
123	25	C102_0175	TD370K 140-150	123	624	76	1,063	25	1,063
125	25	C202_0175	TD370K 140-150	125	616	48	1,656	25	1,656
105	21	C102_0210	TD370K 140-150	105	733	76	1,063	21	1,063
106	21	C202_0210	TD370K 140-150	106	724	45	1,772	21	1,772
93	19	C302_0230	TD370K 140-150	93	826	36	2,218	19	2,218
93	19	C102_0240	TD370K 140-150	93	828	75	1,063	19	1,063

¹⁾ Speed tolerance at rated load is ±3%. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted **F** – Round Flange **Q** – Square Flange **G** – Tapped Holes



See page 78 for mounting positions.

Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

1.5 HP, 1750 RPM Motor

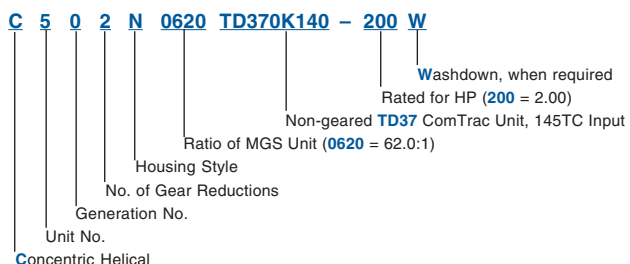
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93	19	C202_0240	TD370K 140-150	93	830	45	1,772	19	1,772
87	17	C102_0250	TD370K 140-150	87	884	74	1,063	17	1,063
89	18	C202_0250	TD370K 140-150	89	867	45	1,772	18	1,772
77	15	C102_0280	TD370K 140-150	77	998	73	1,063	15	1,063
77	15	C202_0280	TD370K 140-150	77	994	46	1,772	15	1,772
78	16	C302_0280	TD370K 140-150	78	985	30	2,645	16	2,645
71	14	C202_0310	TD370K 140-150	71	1,080	46	1,772	14	1,772
70	14	C302_0310	TD370K 140-150	70	1,092	27	2,934	14	2,934
62	12	C202_0350	TD370K 140-150	62	1,238	45	1,772	12	1,772
62	12	C302_0350	TD370K 140-150	62	1,232	26	3,100	12	3,100
54	11	C202_0410	TD370K 140-150	54	1,437	45	1,772	11	1,772
53	11	C302_0410	TD370K 140-150	53	1,455	26	3,100	11	3,100
52	10	C402_0420	TD370K 140-150	52	1,469	20	3,946	10	3,946
47	9.3	C202_0470	TD370K 140-150	47	1,647	44	1,772	9.3	1,772
47	9.4	C302_0470	TD370K 140-150	47	1,642	26	3,100	9.4	3,100
47	9.4	C402_0470	TD370K 140-150	47	1,642	18	4,411	9.4	4,411
44	8.8	C302_0500	TD370K 140-150	44	1,750	26	3,100	8.8	3,100
44	8.7	C402_0500	TD370K 140-150	44	1,766	17	4,744	8.7	4,744
39	7.8	C302_0560	TD370K 140-150	39	1,975	26	3,100	7.8	3,100
39	7.8	C402_0560	TD370K 140-150	39	1,974	16	4,872	7.8	4,872
35	7.0	C402_0630	TD370K 140-150	35	2,199	18	4,440	7.0	4,440
35	7.0	C502_0620	TD370K 140-150	35	2,196	13	5,901	7.0	5,901
31	6.3	C402_0700	TD370K 140-150	31	2,458	17	4,872	6.3	4,872
31	6.3	C502_0700	TD370K 140-150	31	2,461	12	6,613	6.3	6,613
29	5.8	C613_0760	TD370K 140-150	29	2,629	11	7,062	5.8	7,062
27	5.4	C303_0800	TD370K 140-150	27	2,789	25	3,100	5.4	3,100
27	5.4	C403_0810	TD370K 140-150	27	2,802	16	4,872	5.4	4,872
27	5.4	C503_0810	TD370K 140-150	27	2,794	11	7,086	5.4	7,086
25	5.0	C613_0880	TD370K 140-150	25	3,039	10	8,164	5.0	8,164
24	4.8	C403_0900	TD370K 140-150	24	3,132	16	4,872	4.8	4,872
24	4.8	C503_0900	TD370K 140-150	24	3,132	11	7,086	4.8	7,086
21	4.1	C613_1060	TD370K 140-150	21	3,677	8	9,879	4.1	9,879
20	4.1	C403_1080	TD370K 140-150	20	3,735	16	4,872	4.1	4,872
20	4.0	C503_1090	TD370K 140-150	20	3,767	11	7,086	4.0	7,086
16	3.2	C403_1350	TD370K 140-150	16	4,668	16	4,872	3.2	4,872
16	3.2	C503_1350	TD370K 140-150	16	4,692	11	7,086	3.2	7,086
16	3.2	C613_1350	TD370K 140-150	16	4,675	7	11,515	3.2	11,515
12	2.5	C613_1750	TD370K 140-150	12	6,078	7	11,515	2.5	11,515
12	2.4	C503_1810	TD370K 140-150	12	6,263	11	7,086	2.4	7,086
10	2.1	C613_2130	TD370K 140-150	10	7,389	7	11,515	2.1	11,515
8	1.6	C613_2660	TD370K 140-150	8	9,236	7	11,515	1.6	11,515

Part No. Explanation

Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.





"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range		Part Number	Maximum		Transition ⁽²⁾		Minimum	
Output RPM ⁽¹⁾			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

2.0 HP, 1750 RPM Motor

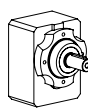
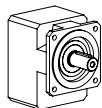
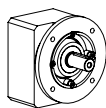
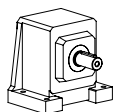
1,095	219	C002_0020	TD370K 140-200	1,095	96	584	189	219	189
1,005	201	C102_0022	TD370K 140-200	1,005	105	536	206	201	206
914	183	C102_0024	TD370K 140-200	914	115	487	226	183	226
847	169	C102_0026	TD370K 140-200	847	124	452	244	169	244
790	158	C002_0028	TD370K 140-200	790	133	421	262	158	262
713	143	C002_0031	TD370K 140-200	713	147	380	290	143	290
659	132	C002_0033	TD370K 140-200	659	159	351	314	132	314
656	131	C102_0033	TD370K 140-200	656	160	350	315	131	315
649	130	C202_0034	TD370K 140-200	649	162	346	319	130	319
570	114	C002_0038	TD370K 140-200	570	184	304	362	114	362
563	113	C102_0039	TD370K 140-200	563	186	300	367	113	367
527	105	C002_0041	TD370K 140-200	527	199	281	392	105	392
522	104	C102_0042	TD370K 140-200	522	201	278	396	104	396
467	93	C002_0047	TD370K 140-200	467	225	258	428	93	428
470	94	C102_0047	TD370K 140-200	470	224	250	440	94	440
435	87	C102_0050	TD370K 140-200	435	241	232	475	87	475
432	86	C002_0051	TD370K 140-200	432	243	259	427	86	427
431	86	C202_0051	TD370K 140-200	431	244	230	479	86	479
376	75	C002_0058	TD370K 140-200	376	280	257	429	75	429
378	76	C202_0058	TD370K 140-200	378	278	201	547	76	547
372	74	C102_0059	TD370K 140-200	372	282	198	555	74	555
347	69	C002_0063	TD370K 140-200	347	303	255	430	69	430
345	69	C102_0063	TD370K 140-200	345	304	184	599	69	599
281	56	C102_0078	TD370K 140-200	281	374	150	737	56	737
266	53	C002_0082	TD370K 140-200	266	395	205	531	53	531
267	53	C202_0082	TD370K 140-200	267	393	142	774	53	774
265	53	C102_0083	TD370K 140-200	265	397	141	781	53	781
237	47	C002_0092	TD370K 140-200	237	443	203	531	47	531
235	47	C102_0093	TD370K 140-200	235	448	125	881	47	881
233	47	C202_0094	TD370K 140-200	233	451	124	887	47	887
212	42	C002_0105	TD370K 140-200	212	494	200	531	42	531
211	42	C102_0105	TD370K 140-200	211	499	112	981	42	981
187	37	C102_0115	TD370K 140-200	187	563	104	1,063	37	1,063
186	37	C202_0120	TD370K 140-200	186	565	99	1,111	37	1,111
176	35	C102_0125	TD370K 140-200	176	598	104	1,063	35	1,063
178	36	C202_0125	TD370K 140-200	178	591	95	1,164	36	1,164
156	31	C102_0140	TD370K 140-200	156	675	104	1,063	31	1,063
155	31	C202_0140	TD370K 140-200	155	678	83	1,334	31	1,334
139	28	C102_0155	TD370K 140-200	139	754	103	1,063	28	1,063
143	29	C202_0155	TD370K 140-200	143	734	76	1,444	29	1,444
123	25	C102_0175	TD370K 140-200	123	851	102	1,063	25	1,063
125	25	C202_0175	TD370K 140-200	125	841	67	1,656	25	1,656
105	21	C102_0210	TD370K 140-200	105	1,001	100	1,063	21	1,063
106	21	C202_0210	TD370K 140-200	106	988	63	1,772	21	1,772
105	21	C302_0210	TD370K 140-200	105	999	56	1,966	21	1,966
93	19	C302_0230	TD370K 140-200	93	1,127	50	2,218	19	2,218

¹⁾ Speed tolerance at rated load is ±3%. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted **F** – Round Flange **Q** – Square Flange **G** – Tapped Holes



See page 78 for mounting positions.

Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

2.0 HP, 1750 RPM Motor

Continued

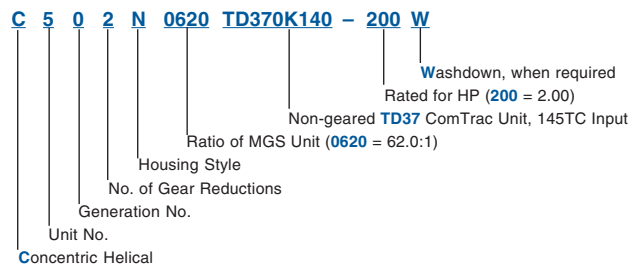
93	19	C202_0240	TD370K	140-200	93	1,133	62	1,772	19	1,772
89	18	C202_0250	TD370K	140-200	89	1,183	62	1,772	18	1,772
88	18	C302_0250	TD370K	140-200	88	1,191	47	2,344	18	2,344
77	15	C202_0280	TD370K	140-200	77	1,356	61	1,772	15	1,772
78	16	C302_0280	TD370K	140-200	78	1,344	42	2,645	16	2,645
71	14	C202_0310	TD370K	140-200	71	1,474	61	1,772	14	1,772
70	14	C302_0310	TD370K	140-200	70	1,491	38	2,934	14	2,934
62	12	C202_0350	TD370K	140-200	62	1,689	60	1,772	12	1,772
62	12	C302_0350	TD370K	140-200	62	1,682	36	3,100	12	3,100
63	13	C402_0350	TD370K	140-200	63	1,672	33	3,291	13	3,291
53	11	C302_0410	TD370K	140-200	53	1,986	36	3,100	11	3,100
52	10	C402_0420	TD370K	140-200	52	2,005	28	3,946	10	3,946
47	9.4	C302_0470	TD370K	140-200	47	2,241	35	3,100	9.4	3,100
47	9.4	C402_0470	TD370K	140-200	47	2,241	25	4,411	9.4	4,411
44	8.8	C302_0500	TD370K	140-200	44	2,389	35	3,100	8.8	3,100
44	8.7	C402_0500	TD370K	140-200	44	2,410	23	4,744	8.7	4,744
39	7.8	C302_0560	TD370K	140-200	39	2,696	35	3,100	7.8	3,100
39	7.8	C402_0560	TD370K	140-200	39	2,694	23	4,872	7.8	4,872
39	7.8	C502_0560	TD370K	140-200	39	2,681	21	5,277	7.8	5,277
35	7.0	C402_0630	TD370K	140-200	35	3,002	25	4,440	7.0	4,440
35	7.0	C502_0620	TD370K	140-200	35	2,998	19	5,901	7.0	5,901
31	6.3	C402_0700	TD370K	140-200	31	3,355	22	4,872	6.3	4,872
31	6.3	C502_0700	TD370K	140-200	31	3,360	17	6,613	6.3	6,613
29	5.8	C613_0760	TD370K	140-200	29	3,588	15	7,062	5.8	7,062
27	5.4	C403_0810	TD370K	140-200	27	3,825	22	4,872	5.4	4,872
27	5.4	C503_0810	TD370K	140-200	27	3,814	15	7,086	5.4	7,086
25	5.0	C613_0880	TD370K	140-200	25	4,148	13	8,164	5.0	8,164
24	4.8	C403_0900	TD370K	140-200	24	4,275	22	4,872	4.8	4,872
24	4.8	C503_0900	TD370K	140-200	24	4,275	15	7,086	4.8	7,086
21	4.1	C613_1060	TD370K	140-200	21	5,019	11	9,879	4.1	9,879
20	4.0	C503_1090	TD370K	140-200	20	5,142	15	7,086	4.0	7,086
16	3.2	C503_1350	TD370K	140-200	16	6,405	15	7,086	3.2	7,086
16	3.2	C613_1350	TD370K	140-200	16	6,382	9	11,515	3.2	11,515
12	2.5	C613_1750	TD370K	140-200	12	8,296	9	11,515	2.5	11,515
10	2.1	C613_2130	TD370K	140-200	10	10,085	9	11,515	2.1	11,515

3.0 HP, 1750 RPM Motor

Continued next page

1,084	217	C102_0020	TD470K	180-300	1,084	150	470	347	217	347
1,005	201	C102_0022	TD470K	180-300	1,005	161	436	374	201	374
914	183	C102_0024	TD470K	180-300	914	178	396	411	183	411
884	177	C202_0025	TD470K	180-300	884	184	384	425	177	425
847	169	C102_0026	TD470K	180-300	847	191	368	444	169	444
813	163	C202_0027	TD470K	180-300	813	199	353	462	163	462
708	142	C102_0031	TD470K	180-300	708	229	307	531	142	531
656	131	C102_0033	TD470K	180-300	656	247	285	573	131	573
649	130	C202_0034	TD470K	180-300	649	250	281	580	130	580

Part No. Explanation



Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

3.0 HP, 1750 RPM Motor

Continued

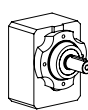
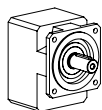
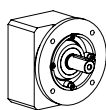
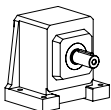
563	113	C102_0039	TD470K 180-300	563	288	244	667	113	667
522	104	C102_0042	TD470K 180-300	522	311	227	720	104	720
498	100	C402_0044	TD470K 180-300	498	326	216	755	100	755
473	95	C502_0046	TD470K 180-300	473	343	205	795	95	795
470	94	C102_0047	TD470K 180-300	470	345	204	800	94	800
435	87	C102_0050	TD470K 180-300	435	373	189	864	87	864
434	87	C302_0050	TD470K 180-300	434	374	188	866	87	866
431	86	C202_0051	TD470K 180-300	431	376	187	872	86	872
414	83	C402_0053	TD470K 180-300	414	392	180	908	83	908
378	76	C202_0058	TD470K 180-300	378	429	164	995	76	995
372	74	C102_0059	TD470K 180-300	372	436	164	996	74	996
373	75	C302_0059	TD470K 180-300	373	434	162	1,007	75	1,007
345	69	C102_0063	TD470K 180-300	345	470	166	992	69	992
347	70	C202_0063	TD470K 180-300	347	467	151	1,082	70	1,082
329	66	C402_0066	TD470K 180-300	329	493	143	1,142	66	1,142
329	66	C502_0067	TD470K 180-300	329	493	143	1,144	66	1,144
281	56	C102_0078	TD470K 180-300	281	578	169	985	56	985
280	56	C202_0078	TD470K 180-300	280	578	122	1,340	56	1,340
267	53	C202_0082	TD470K 180-300	267	607	116	1,407	53	1,407
265	53	C102_0083	TD470K 180-300	265	613	157	1,063	53	1,063
265	53	C302_0083	TD470K 180-300	265	612	115	1,418	53	1,418
235	47	C102_0093	TD470K 180-300	235	692	158	1,063	47	1,063
235	47	C302_0093	TD470K 180-300	235	690	102	1,600	47	1,600
233	47	C202_0094	TD470K 180-300	233	696	101	1,613	47	1,613
211	42	C102_0105	TD470K 180-300	211	770	158	1,063	42	1,063
213	43	C202_0105	TD470K 180-300	213	761	93	1,763	43	1,763
187	37	C102_0115	TD470K 180-300	187	869	156	1,063	37	1,063
188	38	C302_0115	TD470K 180-300	188	861	82	1,995	38	1,995
186	37	C202_0120	TD470K 180-300	186	872	93	1,772	37	1,772
176	35	C102_0125	TD470K 180-300	176	924	155	1,063	35	1,063
178	36	C202_0125	TD470K 180-300	178	913	93	1,772	36	1,772
176	35	C302_0125	TD470K 180-300	176	920	77	2,131	35	2,131
156	31	C102_0140	TD470K 180-300	156	1,042	153	1,063	31	1,063
155	31	C202_0140	TD470K 180-300	155	1,047	94	1,772	31	1,772
156	31	C302_0140	TD470K 180-300	156	1,038	68	2,405	31	2,405
143	29	C202_0155	TD470K 180-300	143	1,133	95	1,772	29	1,772
141	28	C302_0155	TD470K 180-300	141	1,153	61	2,671	28	2,671
139	28	C402_0160	TD470K 180-300	139	1,168	60	2,707	28	2,707
125	25	C202_0175	TD470K 180-300	125	1,299	94	1,772	25	1,772
125	25	C302_0175	TD470K 180-300	125	1,301	54	3,014	25	3,014
112	22	C612_0195	TD470K 180-300	112	1,454	48	3,369	22	3,369
106	21	C202_0210	TD470K 180-300	106	1,526	93	1,772	21	1,772
105	21	C302_0210	TD470K 180-300	105	1,542	53	3,100	21	3,100
93	19	C302_0230	TD470K 180-300	93	1,741	54	3,100	19	3,100
94	19	C402_0230	TD470K 180-300	94	1,732	41	4,014	19	4,014
93	19	C202_0240	TD470K 180-300	93	1,750	92	1,772	19	1,772

¹⁾ Speed tolerance at rated load is $\pm 3\%$. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted F – Round Flange Q – Square Flange G – Tapped Holes



See page 78 for mounting positions.

Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

3.0 HP, 1750 RPM Motor

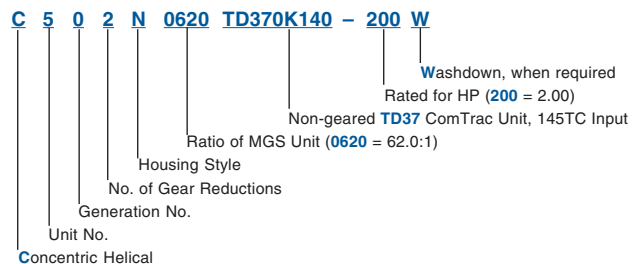
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88	18	C302_0250	TD470K 180-300	88	1,839	54	3,100	18	3,100
88	18	C402_0250	TD470K 180-300	88	1,848	38	4,283	18	4,283
80	16	C612_0270	TD470K 180-300	80	2,034	35	4,714	16	4,714
78	16	C302_0280	TD470K 180-300	78	2,075	54	3,100	16	3,100
79	16	C402_0280	TD470K 180-300	79	2,066	34	4,787	16	4,787
70	14	C302_0310	TD470K 180-300	70	2,302	54	3,100	14	3,100
70	14	C402_0310	TD470K 180-300	70	2,310	34	4,872	14	4,872
68	14	C612_0320	TD470K 180-300	68	2,403	29	5,569	14	5,569
65	13	C712_0340	TD470K 180-300	65	2,506	28	5,808	13	5,808
62	12	C302_0350	TD470K 180-300	62	2,597	53	3,100	12	3,100
63	13	C402_0350	TD470K 180-300	63	2,582	34	4,872	13	4,872
63	13	C502_0350	TD470K 180-300	63	2,595	27	6,015	13	6,015
56	11	C612_0390	TD470K 180-300	56	2,921	24	6,770	11	6,770
53	11	C712_0410	TD470K 180-300	53	3,042	23	7,048	11	7,048
52	10	C402_0420	TD470K 180-300	52	3,096	34	4,872	10	4,872
52	10	C502_0420	TD470K 180-300	52	3,091	23	7,086	10	7,086
48	10	C612_0450	TD470K 180-300	48	3,362	21	7,790	10	7,790
47	9.4	C402_0470	TD470K 180-300	47	3,461	34	4,872	9.4	4,872
47	9.4	C502_0470	TD470K 180-300	47	3,464	23	7,086	9.4	7,086
44	8.9	C613_0490	TD470K 180-300	44	3,601	19	8,346	8.9	8,346
44	8.8	C502_0500	TD470K 180-300	44	3,694	23	7,086	8.8	7,086
40	7.9	C612_0550	TD470K 180-300	40	4,087	17	9,471	7.9	9,471
39	7.8	C502_0560	TD470K 180-300	39	4,140	24	7,086	7.8	7,086
39	7.7	C712_0570	TD470K 180-300	39	4,213	17	9,764	7.7	9,764
34	6.9	C613_0630	TD470K 180-300	34	4,638	15	10,748	6.9	10,748
32	6.4	C612_0690	TD470K 180-300	32	5,108	14	11,515	6.4	11,515
31	6.3	C712_0700	TD470K 180-300	31	5,157	14	11,951	6.3	11,951
28	5.7	C613_0770	TD470K 180-300	28	5,613	13	12,844	5.7	12,844
28	5.5	C813_0790	TD470K 180-300	28	5,798	12	13,437	5.5	13,437
27	5.4	C713_0810	TD470K 180-300	27	5,917	12	13,713	5.4	13,713
25	4.9	C613_0890	TD470K 180-300	25	6,488	14	11,515	4.9	11,515
24	4.8	C813_0910	TD470K 180-300	24	6,638	10	15,382	4.8	15,382
22	4.5	C613_0980	TD470K 180-300	22	7,136	13	12,844	4.5	12,844
22	4.4	C713_0990	TD470K 180-300	22	7,246	10	16,791	4.4	16,791
20	4.1	C613_1070	TD470K 180-300	20	7,851	14	11,515	4.1	11,515
20	4.1	C813_1080	TD470K 180-300	20	7,862	9	18,220	4.1	18,220
17	3.4	C613_1270	TD470K 180-300	17	9,276	13	12,844	3.4	12,844
17	3.3	C713_1320	TD470K 180-300	17	9,674	8	21,259	3.3	21,259
16	3.2	C613_1370	TD470K 180-300	16	9,982	14	11,515	3.2	11,515
16	3.2	C713_1370	TD470K 180-300	16	10,037	9	17,716	3.2	17,716
16	3.2	C813_1380	TD470K 180-300	16	10,114	7	23,438	3.2	23,438
12	2.4	C713_1830	TD470K 180-300	12	13,402	9	17,716	2.4	17,716
12	2.5	C813_1780	TD470K 180-300	12	13,035	5	30,208	2.5	30,208
10	2.1	C813_2120	TD470K 180-300	10	15,501	5	31,889	2.1	31,889
10	2.0	C713_2230	TD470K 180-300	10	16,264	9	17,716	2.0	17,716
8	1.6	C813_2700	TD470K 180-300	8	19,719	5	31,889	1.6	31,889

Part No. Explanation

Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.





"C" Series – MGS Adjustable Speed Drive Selection Data



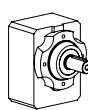
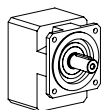
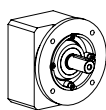
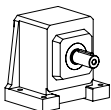
Speed Range		Part Number		Maximum		Transition ⁽²⁾		Minimum	
Output RPM ⁽¹⁾				RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.								
5.0 HP, 1750 RPM Motor									
1,089	218	C202_0020	TD570K 180-500	1,089	255	543	518	218	518
1,002	200	C202_0022	TD570K 180-500	1,002	277	499	563	200	563
884	177	C202_0025	TD570K 180-500	884	314	441	638	177	638
813	163	C202_0027	TD570K 180-500	813	342	405	693	163	693
705	141	C202_0031	TD570K 180-500	705	394	351	800	141	800
649	130	C202_0034	TD570K 180-500	649	428	323	869	130	869
563	113	C202_0039	TD570K 180-500	563	494	281	1,002	113	1,002
518	104	C202_0042	TD570K 180-500	518	537	258	1,089	104	1,089
523	105	C302_0042	TD570K 180-500	523	531	261	1,077	105	1,077
498	100	C402_0044	TD570K 180-500	498	558	248	1,133	100	1,133
473	95	C502_0046	TD570K 180-500	473	588	236	1,193	95	1,193
469	94	C202_0047	TD570K 180-500	469	593	234	1,203	94	1,203
468	94	C302_0047	TD570K 180-500	468	594	233	1,205	94	1,205
434	87	C302_0050	TD570K 180-500	434	640	216	1,299	87	1,299
431	86	C202_0051	TD570K 180-500	431	644	215	1,307	86	1,307
414	83	C402_0053	TD570K 180-500	414	671	206	1,362	83	1,362
378	76	C202_0058	TD570K 180-500	378	735	197	1,431	76	1,431
373	75	C302_0059	TD570K 180-500	373	744	186	1,510	75	1,510
347	70	C202_0063	TD570K 180-500	347	799	198	1,427	70	1,427
346	69	C302_0063	TD570K 180-500	346	802	173	1,628	69	1,628
329	66	C402_0066	TD570K 180-500	329	844	164	1,714	66	1,714
329	66	C502_0067	TD570K 180-500	329	845	164	1,715	66	1,715
280	56	C202_0078	TD570K 180-500	280	990	201	1,422	56	1,422
279	56	C302_0078	TD570K 180-500	279	996	139	2,021	56	2,021
267	53	C202_0082	TD570K 180-500	267	1,040	160	1,772	53	1,772
265	53	C302_0083	TD570K 180-500	265	1,048	132	2,127	53	2,127
235	47	C302_0093	TD570K 180-500	235	1,182	117	2,400	47	2,400
233	47	C202_0094	TD570K 180-500	233	1,192	161	1,772	47	1,772
213	43	C202_0105	TD570K 180-500	213	1,303	161	1,772	43	1,772
213	43	C302_0105	TD570K 180-500	213	1,306	106	2,651	43	2,651
188	38	C302_0115	TD570K 180-500	188	1,474	94	2,992	38	2,992
188	38	C402_0115	TD570K 180-500	188	1,478	94	2,999	38	2,999
186	37	C202_0120	TD570K 180-500	186	1,493	159	1,772	37	1,772
178	36	C202_0125	TD570K 180-500	178	1,564	159	1,772	36	1,772
176	35	C302_0125	TD570K 180-500	176	1,575	91	3,100	35	3,100
175	35	C402_0125	TD570K 180-500	175	1,590	87	3,227	35	3,227
156	31	C302_0140	TD570K 180-500	156	1,777	91	3,100	31	3,100
156	31	C402_0140	TD570K 180-500	156	1,777	78	3,607	31	3,607
141	28	C302_0155	TD570K 180-500	141	1,974	92	3,100	28	3,100
139	28	C502_0155	TD570K 180-500	139	1,995	69	4,049	28	4,049
139	28	C402_0160	TD570K 180-500	139	2,000	69	4,060	28	4,060
125	25	C302_0175	TD570K 180-500	125	2,227	92	3,100	25	3,100
124	25	C402_0175	TD570K 180-500	124	2,235	62	4,538	25	4,538
112	22	C612_0195	TD570K 180-500	112	2,490	56	5,054	22	5,054
105	21	C302_0210	TD570K 180-500	105	2,641	91	3,100	21	3,100
105	21	C402_0210	TD570K 180-500	105	2,654	58	4,872	21	4,872

¹⁾ Speed tolerance at rated load is ±3%. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted F – Round Flange Q – Square Flange G – Tapped Holes



See page 78 for mounting positions.
Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

5.0 HP, 1750 RPM Motor

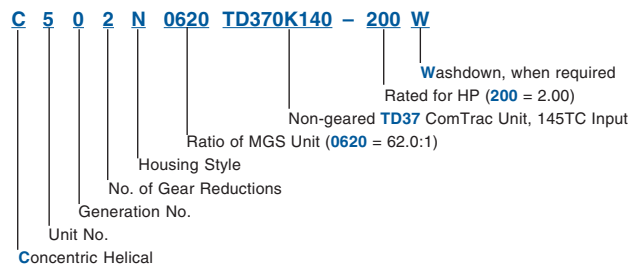
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105	21	C502_0210	TD570K 180-500	105	2,647	52	5,373	21	5,373
93	19	C302_0230	TD570K 180-500	93	2,981	90	3,100	19	3,100
94	19	C402_0230	TD570K 180-500	94	2,966	58	4,872	19	4,872
94	19	C502_0230	TD570K 180-500	94	2,966	47	6,021	19	6,021
88	18	C402_0250	TD570K 180-500	88	3,165	59	4,872	18	4,872
87	17	C502_0250	TD570K 180-500	87	3,184	43	6,463	17	6,463
80	16	C612_0270	TD570K 180-500	80	3,483	40	7,070	16	7,070
79	16	C402_0280	TD570K 180-500	79	3,537	59	4,872	16	4,872
78	16	C502_0280	TD570K 180-500	78	3,568	40	7,086	16	7,086
70	14	C402_0310	TD570K 180-500	70	3,956	58	4,872	14	4,872
70	14	C502_0310	TD570K 180-500	70	3,966	40	7,086	14	7,086
68	14	C612_0320	TD570K 180-500	68	4,115	34	8,353	14	8,353
65	13	C712_0340	TD570K 180-500	65	4,292	32	8,712	13	8,712
63	13	C402_0350	TD570K 180-500	63	4,422	58	4,872	13	4,872
63	13	C502_0350	TD570K 180-500	63	4,445	40	7,086	13	7,086
63	13	C612_0350	TD570K 180-500	63	4,428	31	8,989	13	8,989
56	11	C612_0390	TD570K 180-500	56	5,003	28	10,155	11	10,155
53	11	C712_0410	TD570K 180-500	53	5,208	27	10,573	11	10,573
52	10	C502_0420	TD570K 180-500	52	5,294	40	7,086	10	7,086
48	10	C612_0450	TD570K 180-500	48	5,757	24	11,515	10	11,515
47	9.4	C502_0470	TD570K 180-500	47	5,933	40	7,086	9.4	7,086
47	9.3	C712_0470	TD570K 180-500	47	5,945	23	12,068	9.3	12,068
44	8.9	C613_0490	TD570K 180-500	44	6,167	22	12,519	8.9	12,519
44	8.8	C502_0500	TD570K 180-500	44	6,327	40	7,086	8.8	7,086
40	7.9	C612_0550	TD570K 180-500	40	6,998	25	11,515	7.9	11,515
39	7.7	C712_0570	TD570K 180-500	39	7,215	19	14,646	7.7	14,646
34	6.9	C613_0630	TD570K 180-500	34	7,942	22	12,844	6.9	12,844
32	6.4	C612_0690	TD570K 180-500	32	8,748	25	11,515	6.4	11,515
31	6.3	C712_0700	TD570K 180-500	31	8,831	16	17,716	6.3	17,716
28	5.7	C613_0770	TD570K 180-500	28	9,611	22	12,844	5.7	12,844
28	5.5	C813_0790	TD570K 180-500	28	9,930	14	20,156	5.5	20,156
27	5.4	C713_0810	TD570K 180-500	27	10,133	13	20,569	5.4	20,569
25	4.9	C613_0890	TD570K 180-500	25	11,111	24	11,515	4.9	11,515
24	4.8	C813_0910	TD570K 180-500	24	11,367	12	23,073	4.8	23,073
22	4.5	C613_0980	TD570K 180-500	22	12,219	21	12,844	4.5	12,844
22	4.4	C713_0990	TD570K 180-500	22	12,408	13	21,259	4.4	21,259
20	4.1	C813_1080	TD570K 180-500	20	13,464	10	27,330	4.1	27,330
17	3.3	C713_1320	TD570K 180-500	17	16,567	13	21,259	3.3	21,259
16	3.2	C713_1370	TD570K 180-500	16	17,188	16	17,716	3.2	17,716
16	3.2	C813_1380	TD570K 180-500	16	17,320	9	31,889	3.2	31,889
12	2.5	C813_1780	TD570K 180-500	12	22,322	9	31,889	2.5	31,889
10	2.1	C813_2120	TD570K 180-500	10	26,545	9	31,889	2.1	31,889

Part No. Explanation

Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.





"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range		Part Number	Maximum		Transition ⁽²⁾		Minimum	
Output RPM ⁽¹⁾			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

7.5 HP, 1750 RPM Motor

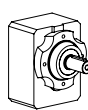
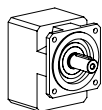
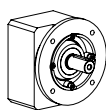
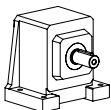
1,083	217	C302_0020	TD670K 210-750	1,083	381	590	712	217	712
1,005	201	C302_0022	TD670K 210-750	1,005	411	548	767	201	767
872	174	C302_0025	TD670K 210-750	872	474	475	884	174	884
809	162	C302_0027	TD670K 210-750	809	511	441	953	162	953
789	158	C402_0028	TD670K 210-750	789	523	430	976	158	976
703	141	C302_0031	TD670K 210-750	703	587	383	1,096	141	1,096
653	131	C302_0034	TD670K 210-750	653	633	356	1,181	131	1,181
626	125	C402_0035	TD670K 210-750	626	660	341	1,232	125	1,232
564	113	C302_0039	TD670K 210-750	564	732	308	1,366	113	1,366
523	105	C302_0042	TD670K 210-750	523	789	285	1,472	105	1,472
514	103	C712_0043	TD670K 210-750	514	804	280	1,500	103	1,500
498	100	C402_0044	TD670K 210-750	498	829	271	1,548	100	1,548
473	95	C502_0046	TD670K 210-750	473	874	258	1,631	95	1,631
468	94	C302_0047	TD670K 210-750	468	882	255	1,647	94	1,647
434	87	C302_0050	TD670K 210-750	434	951	237	1,775	87	1,775
430	86	C612_0051	TD670K 210-750	430	959	235	1,791	86	1,791
414	83	C402_0053	TD670K 210-750	414	997	226	1,861	83	1,861
373	75	C302_0059	TD670K 210-750	373	1,106	204	2,064	75	2,064
371	74	C402_0059	TD670K 210-750	371	1,112	202	2,075	74	2,075
346	69	C302_0063	TD670K 210-750	346	1,192	189	2,224	69	2,224
336	67	C612_0065	TD670K 210-750	336	1,230	183	2,296	67	2,296
329	66	C402_0066	TD670K 210-750	329	1,255	179	2,342	66	2,342
329	66	C502_0067	TD670K 210-750	329	1,256	179	2,344	66	2,344
321	64	C712_0068	TD670K 210-750	321	1,286	175	2,399	64	2,399
308	62	C612_0071	TD670K 210-750	308	1,342	168	2,505	62	2,505
297	59	C712_0074	TD670K 210-750	297	1,389	162	2,592	59	2,592
279	56	C302_0078	TD670K 210-750	279	1,480	173	2,447	56	2,447
280	56	C402_0078	TD670K 210-750	280	1,475	153	2,753	56	2,753
267	53	C612_0082	TD670K 210-750	267	1,546	146	2,885	53	2,885
265	53	C302_0083	TD670K 210-750	265	1,557	145	2,906	53	2,906
264	53	C402_0083	TD670K 210-750	264	1,564	144	2,919	53	2,919
258	52	C712_0085	TD670K 210-750	258	1,602	140	2,991	52	2,991
240	48	C612_0091	TD670K 210-750	240	1,721	131	3,212	48	3,212
235	47	C302_0093	TD670K 210-750	235	1,757	136	3,100	47	3,100
236	47	C402_0093	TD670K 210-750	236	1,748	129	3,262	47	3,262
232	46	C712_0094	TD670K 210-750	232	1,781	126	3,324	46	3,324
221	44	C712_0099	TD670K 210-750	221	1,871	120	3,492	44	3,492
216	43	C612_0100	TD670K 210-750	216	1,908	118	3,562	43	3,562
213	43	C302_0105	TD670K 210-750	213	1,941	137	3,100	43	3,100
210	42	C402_0105	TD670K 210-750	210	1,965	115	3,667	42	3,667
188	38	C302_0115	TD670K 210-750	188	2,191	137	3,100	38	3,100
188	38	C402_0115	TD670K 210-750	188	2,196	102	4,099	38	4,099
186	37	C712_0120	TD670K 210-750	186	2,220	101	4,143	37	4,143
176	35	C302_0125	TD670K 210-750	176	2,340	136	3,100	35	3,100
175	35	C402_0125	TD670K 210-750	175	2,363	95	4,410	35	4,410
166	33	C712_0130	TD670K 210-750	166	2,488	90	4,644	33	4,644

¹⁾ Speed tolerance at rated load is ±3%. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted F – Round Flange Q – Square Flange G – Tapped Holes



See page 78 for mounting positions.

Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

7.5 HP, 1750 RPM Motor

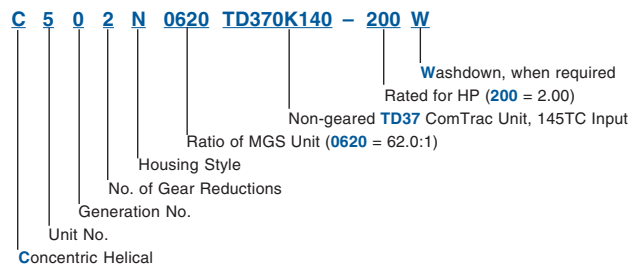
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159	32	C712_0135	TD670K 210-750	159	2,592	87	4,837	32	4,837
156	31	C302_0140	TD670K 210-750	156	2,641	135	3,100	31	3,100
156	31	C402_0140	TD670K 210-750	156	2,641	86	4,872	31	4,872
157	31	C502_0140	TD670K 210-750	157	2,629	86	4,907	31	4,907
141	28	C302_0155	TD670K 210-750	141	2,934	134	3,100	28	3,100
139	28	C502_0155	TD670K 210-750	139	2,965	76	5,534	28	5,534
139	28	C402_0160	TD670K 210-750	139	2,973	87	4,872	28	4,872
135	27	C612_0160	TD670K 210-750	135	3,058	74	5,708	27	5,708
131	26	C712_0165	TD670K 210-750	131	3,159	71	5,895	26	5,895
128	26	C812_0170	TD670K 210-750	128	3,228	70	6,024	26	6,024
124	25	C402_0175	TD670K 210-750	124	3,323	87	4,872	25	4,872
124	25	C502_0175	TD670K 210-750	124	3,323	68	6,202	25	6,202
120	24	C712_0185	TD670K 210-750	120	3,447	65	6,433	24	6,433
112	22	C612_0195	TD670K 210-750	112	3,701	61	6,907	22	6,907
108	22	C812_0200	TD670K 210-750	108	3,823	59	7,136	22	7,136
105	21	C402_0210	TD670K 210-750	105	3,945	86	4,872	21	4,872
105	21	C502_0210	TD670K 210-750	105	3,934	59	7,086	21	7,086
106	21	C712_0210	TD670K 210-750	106	3,902	58	7,282	21	7,282
94	19	C402_0230	TD670K 210-750	94	4,409	86	4,872	19	4,872
94	19	C502_0230	TD670K 210-750	94	4,409	60	7,086	19	7,086
97	19	C612_0230	TD670K 210-750	97	4,278	53	7,985	19	7,985
87	17	C502_0250	TD670K 210-750	87	4,733	60	7,086	17	7,086
88	18	C612_0250	TD670K 210-750	88	4,705	48	8,782	18	8,782
84	17	C812_0260	TD670K 210-750	84	4,918	46	9,180	17	9,180
80	16	C612_0270	TD670K 210-750	80	5,177	43	9,663	16	9,663
78	16	C502_0280	TD670K 210-750	78	5,304	60	7,086	16	7,086
76	15	C712_0290	TD670K 210-750	76	5,405	42	10,088	15	10,088
68	14	C612_0320	TD670K 210-750	68	6,117	37	11,416	14	11,416
65	13	C712_0340	TD670K 210-750	65	6,379	35	11,906	13	11,906
63	13	C612_0350	TD670K 210-750	63	6,582	37	11,515	13	11,515
62	12	C712_0350	TD670K 210-750	62	6,618	34	12,353	12	12,353
55	11	C812_0400	TD670K 210-750	55	7,538	30	14,069	11	14,069
53	11	C712_0410	TD670K 210-750	53	7,742	29	14,449	11	14,449
48	10	C612_0450	TD670K 210-750	48	8,557	37	11,515	10	11,515
48	10	C812_0460	TD670K 210-750	48	8,595	26	16,042	10	16,042
47	9.3	C712_0470	TD670K 210-750	47	8,837	25	16,493	9.3	16,493
44	8.9	C813_0490	TD670K 210-750	44	9,148	24	17,074	8.9	17,074
43	8.6	C713_0510	TD670K 210-750	43	9,458	23	17,653	8.6	17,653
40	8.1	C812_0540	TD670K 210-750	40	10,222	22	19,078	8.1	19,078
39	7.7	C712_0570	TD670K 210-750	39	10,724	24	17,716	7.7	17,716
34	6.8	C713_0650	TD670K 210-750	34	12,007	20	21,259	6.8	21,259
33	6.6	C813_0660	TD670K 210-750	33	12,271	18	22,902	6.6	22,902
32	6.4	C812_0690	TD670K 210-750	32	13,003	17	24,268	6.4	24,268
28	5.6	C813_0780	TD670K 210-750	28	14,535	15	27,128	5.6	27,128
27	5.5	C713_0800	TD670K 210-750	27	14,832	20	21,259	5.5	21,259
24	4.9	C713_0890	TD670K 210-750	24	16,634	23	17,716	4.9	17,716

Part No. Explanation

Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.





"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range		Part Number		Maximum		Transition ⁽²⁾		Minimum	
Output RPM ⁽¹⁾				RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.								
7.5 HP, 1750 RPM Motor									
Continued									
24	4.9	C813_0890	TD670K 210-750	24	16,638	13	31,054	4.9	31,054
24	4.8	C913_0900	TD670K 210-750	24	16,783	13	31,324	4.8	31,324
22	4.5	C713_0980	TD670K 210-750	22	18,162	19	21,259	4.5	21,259
22	4.4	C813_1010	TD670K 210-750	22	18,698	12	34,897	4.4	34,897
21	4.1	C813_1060	TD670K 210-750	21	19,708	13	31,889	4.1	31,889
20	4.0	C913_1100	TD670K 210-750	20	20,543	11	38,342	4.0	38,342
17	3.4	C813_1300	TD670K 210-750	17	24,098	11	37,204	3.4	37,204
16	3.2	C813_1360	TD670K 210-750	16	25,353	13	31,889	3.2	31,889
16	3.2	C913_1390	TD670K 210-750	16	25,834	9	48,217	3.2	48,217
12	2.5	C913_1760	TD670K 210-750	12	32,758	8	53,148	2.5	53,148
10	2.0	C913_2150	TD670K 210-750	10	40,062	8	53,148	2.0	53,148

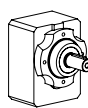
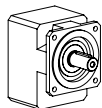
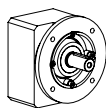
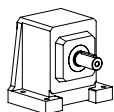
10.0 HP, 1750 RPM Motor									
Continued next page									
1,139	228	C502_0020	TD760K 210-1000	1,139	505	604	951	228	951
1,001	200	C502_0022	TD760K 210-1000	1,001	575	531	1,081	200	1,081
918	184	C502_0025	TD760K 210-1000	918	627	487	1,179	184	1,179
807	161	C502_0028	TD760K 210-1000	807	713	428	1,341	161	1,341
731	146	C502_0031	TD760K 210-1000	731	787	388	1,481	146	1,481
643	129	C502_0035	TD760K 210-1000	643	895	341	1,685	129	1,685
582	116	C502_0039	TD760K 210-1000	582	989	309	1,861	116	1,861
538	108	C612_0042	TD760K 210-1000	538	1,070	285	2,013	108	2,013
511	102	C502_0044	TD760K 210-1000	511	1,125	271	2,117	102	2,117
486	97	C502_0046	TD760K 210-1000	486	1,184	258	2,227	97	2,227
443	89	C612_0051	TD760K 210-1000	443	1,300	235	2,446	89	2,446
427	85	C502_0053	TD760K 210-1000	427	1,347	227	2,533	85	2,533
385	77	C502_0059	TD760K 210-1000	385	1,496	204	2,815	77	2,815
345	69	C612_0065	TD760K 210-1000	345	1,667	183	3,136	69	3,136
338	68	C502_0067	TD760K 210-1000	338	1,702	179	3,202	68	3,202
330	66	C712_0068	TD760K 210-1000	330	1,742	175	3,277	66	3,277
316	63	C612_0071	TD760K 210-1000	316	1,819	168	3,422	63	3,422
290	58	C502_0078	TD760K 210-1000	290	1,985	154	3,735	58	3,735
275	55	C612_0082	TD760K 210-1000	275	2,095	146	3,941	55	3,941
272	54	C502_0083	TD760K 210-1000	272	2,113	144	3,976	54	3,976
265	53	C712_0085	TD760K 210-1000	265	2,171	141	4,085	53	4,085
247	49	C612_0091	TD760K 210-1000	247	2,332	131	4,387	49	4,387
243	49	C502_0093	TD760K 210-1000	243	2,369	129	4,456	49	4,456
238	48	C712_0094	TD760K 210-1000	238	2,413	126	4,540	48	4,540
227	45	C712_0099	TD760K 210-1000	227	2,535	120	4,769	45	4,769
223	45	C612_0100	TD760K 210-1000	223	2,586	118	4,865	45	4,865
217	43	C502_0105	TD760K 210-1000	217	2,655	115	4,996	43	4,996
193	39	C502_0115	TD760K 210-1000	193	2,976	103	5,599	39	5,599
191	38	C712_0120	TD760K 210-1000	191	3,008	101	5,659	38	5,659
181	36	C502_0125	TD760K 210-1000	181	3,179	96	5,980	36	5,980
171	34	C712_0130	TD760K 210-1000	171	3,371	91	6,343	34	6,343
164	33	C712_0135	TD760K 210-1000	164	3,511	87	6,606	33	6,606

¹⁾ Speed tolerance at rated load is ±3%. At less than rated load, minimum speed may increase 5%.

²⁾ The ComTrac drive operates at constant horsepower above transition values and at constant torque below transition values. Note shaded area. Engineering advances may cause slight changes to the information shown.

Housing Styles

N – Foot Mounted **F** – Round Flange **Q** – Square Flange **G** – Tapped Holes



See page 78 for mounting positions.
Housing Style Q is available on special order.

Output Shaft Diameter (inches)

See Page 21 for other options.

Base Module	Dia.	Base Module	Dia.
C002	.7500	C512/C513	1.6250
C102/C103	1.0000	C612/C613	2.1250
C202/C203	1.2500	C712/C713	2.3750
C302/C303	1.2500	C812/C813	2.8750
C402/C403	1.6250	C912/C913	3.6250



"C" Series – MGS Adjustable Speed Drive Selection Data



Speed Range Output RPM ⁽¹⁾		Part Number	Maximum		Transition ⁽²⁾		Minimum	
			RPM	Torque in.lbs.	RPM	Torque in.lbs.	RPM	Torque in.lbs.
Max.	Min.							

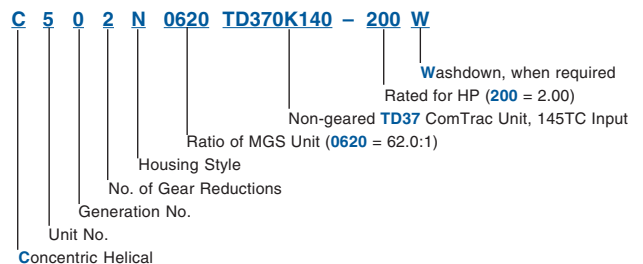
10.0 HP, 1750 RPM Motor Continued

162	32	C502_0140	TD760K 210-1000	162	3,562	86	6,702	32	6,702
143	29	C502_0155	TD760K 210-1000	143	4,017	81	7,086	29	7,086
139	28	C612_0160	TD760K 210-1000	139	4,144	74	7,796	28	7,796
134	27	C712_0165	TD760K 210-1000	134	4,280	71	8,052	27	8,052
132	26	C812_0170	TD760K 210-1000	132	4,374	70	8,228	26	8,228
128	26	C502_0175	TD760K 210-1000	128	4,502	82	7,086	26	7,086
128	26	C612_0175	TD760K 210-1000	128	4,501	68	8,469	26	8,469
123	25	C712_0185	TD760K 210-1000	123	4,670	65	8,787	25	8,787
115	23	C612_0195	TD760K 210-1000	115	5,014	61	9,434	23	9,434
111	22	C812_0200	TD760K 210-1000	111	5,181	59	9,747	22	9,747
108	22	C502_0210	TD760K 210-1000	108	5,331	83	7,086	22	7,086
109	22	C712_0210	TD760K 210-1000	109	5,287	58	9,947	22	9,947
96	19	C502_0230	TD760K 210-1000	96	5,974	82	7,086	19	7,086
99	20	C612_0230	TD760K 210-1000	99	5,797	53	10,907	20	10,907
90	18	C502_0250	TD760K 210-1000	90	6,412	82	7,086	18	7,086
90	18	C612_0250	TD760K 210-1000	90	6,375	48	11,995	18	11,995
86	17	C812_0260	TD760K 210-1000	86	6,664	46	12,538	17	12,538
82	16	C612_0270	TD760K 210-1000	82	7,015	50	11,515	16	11,515
82	16	C812_0270	TD760K 210-1000	82	7,025	43	13,216	16	13,216
79	16	C712_0290	TD760K 210-1000	79	7,324	42	13,779	16	13,779
69	14	C612_0320	TD760K 210-1000	69	8,288	45	12,844	14	12,844
70	14	C912_0320	TD760K 210-1000	70	8,218	37	15,462	14	15,462
67	13	C712_0340	TD760K 210-1000	67	8,644	35	16,262	13	16,262
65	13	C612_0350	TD760K 210-1000	65	8,919	51	11,515	13	11,515
64	13	C712_0350	TD760K 210-1000	64	8,968	34	16,872	13	16,872
62	12	C912_0360	TD760K 210-1000	62	9,208	33	17,324	12	17,324
57	11	C912_0390	TD760K 210-1000	57	10,050	30	18,909	11	18,909
56	11	C812_0400	TD760K 210-1000	56	10,214	30	19,217	11	19,217
55	11	C712_0410	TD760K 210-1000	55	10,490	31	18,554	11	18,554
49	10	C812_0460	TD760K 210-1000	49	11,646	26	21,911	10	21,911
48	10	C712_0470	TD760K 210-1000	48	11,974	33	17,716	10	17,716
42	8.3	C812_0540	TD760K 210-1000	42	13,850	22	26,057	8.3	26,057
40	8.1	C912_0560	TD760K 210-1000	40	14,279	21	26,865	8.1	26,865
40	7.9	C712_0570	TD760K 210-1000	40	14,531	33	17,716	7.9	17,716
35	7.0	C913_0650	TD760K 210-1000	35	16,279	18	30,628	7.0	30,628
33	6.5	C812_0690	TD760K 210-1000	33	17,618	18	31,889	6.5	31,889
32	6.4	C912_0700	TD760K 210-1000	32	17,894	17	33,665	6.4	33,665
28	5.7	C913_0790	TD760K 210-1000	28	19,927	15	37,491	5.7	37,491
25	4.9	C913_0920	TD760K 210-1000	25	23,129	13	43,515	4.9	43,515
23	4.5	C913_0990	TD760K 210-1000	23	25,059	12	47,146	4.5	47,146
20	4.0	C913_1120	TD760K 210-1000	20	28,312	11	53,148	4.0	53,148
18	3.6	C913_1260	TD760K 210-1000	18	31,776	9	59,782	3.6	59,782
16	3.2	C913_1410	TD760K 210-1000	16	35,603	11	53,148	3.2	53,148
13	2.5	C913_1790	TD760K 210-1000	13	45,146	11	53,148	2.5	53,148

Part No. Explanation

Selection Procedure:

- Determine the MGS/ComTrac combination according to the Input HP of the application and the Output RPM nearest the required **maximum** speed.
- Verify that the output torque will sufficiently meet the application requirements.
- Complete the Part No. per the example by adding the Housing Style letter ("N", "F", "Q" or "G") as required.





"C" Series – MGS® Adjustable Speed Drives Dimensional Data



Drawing for Units
C002N – C503N

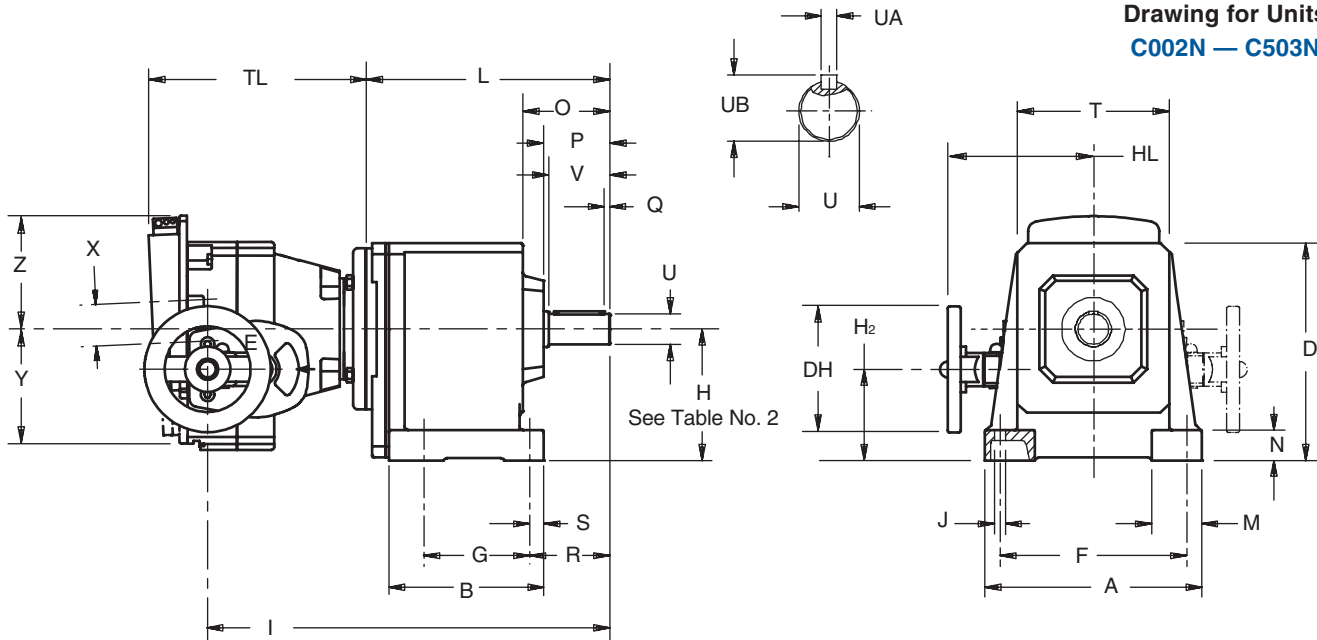


Table No. 1 "C" Series with ComTrac – Foot Mounting Unit Dimensions (Inches) – "N" Housing Style

Base Module	A	B	D	F	G	H	J	M	N	O	P	Q	R	S	T	V	Z ₁
C002	5.20	3.74	5.67	4.33	2.44	3.23	.28	1.38	.79	2.24	1.73	.16	2.17	.43	3.62	1.57	—
C102/C103	6.93	4.65	6.97	5.91	2.76	4.02	.35	1.65	.98	2.72	2.13	.16	2.64	.51	4.88	1.97	—
C202/C203	7.87	5.31	7.68	6.69	3.35	4.53 ¹⁾	.43	1.97	1.18	3.39	2.56	.16	3.11	.55	5.43	2.36	—
C302/C303	8.46	6.06	8.46	7.28	4.13	5.12 ¹⁾	.43	1.97	1.18	3.35	2.56	.16	3.11	.55	5.91	2.36	—
C402/C403	10.04	7.09	9.65	8.66	4.33	5.71	.55	2.36	1.38	4.17	3.39	.16	4.13	.75	6.89	3.15	—
C502/C503	11.42	7.76	11.42	9.65	5.12	6.69	.71	2.76	1.57	4.21	3.39	.16	4.25	.87	7.56	3.15	—
C612/C613	11.81	10.43	12.40	9.65	8.46	7.87 ¹⁾	.71	2.95	1.57	6.02	4.17	.20	5.12	.98	6.97	3.94	6.57
C712/C713	14.37	11.22	14.76	11.81	9.25	9.25 ¹⁾	.71	3.54	1.97	7.28	5.00	.20	6.42	.98	7.56	4.72	7.91
C812/C813	17.13	14.17	17.72	13.39	11.81	11.42	.87	3.74	2.17	8.58	5.83	.39	7.48	1.14	8.78	5.51	8.70
C912/C913	20.08	16.14	20.87	15.75	13.39	13.39	1.02	4.33	2.36	10.08	7.01	.39	8.74	1.34	10.91	6.69	10.24

¹⁾ See Table No. 2. These sizes are not coaxial. H=Output Height, H₁=Input Height.

Table No. 2 H₁ Dimension (Inches)

Base Module	TD27	TD37	TD47	TD57	TD67	TD76
C203	3.07	—	—	—	—	—
C303	3.66	3.66	—	—	—	—
C612	—	—	7.64	7.64	7.64	7.64
C613	7.64	7.64	7.64	7.64	—	—
C713	—	—	—	—	8.50	—

These sizes are not coaxial.
H=Output Height, H₁=Input Height.

Table No. 3 "C" Series Shaft Dimensions (Inches)

Base Module	U	Tolerance	UA – Key	UB
C002	.7500	+0.000/-0.0006	$\frac{3}{16} \times \frac{3}{16} \times 17/32$.83
C102/C103	1.0000	+0.000/-0.0006	$\frac{1}{4} \times \frac{1}{4} \times 19/16$	1.11
C202/C203	1.2500	+0.000/-0.0007	$\frac{1}{4} \times \frac{1}{4} \times 115/16$	1.36
C302/C303	1.2500	+0.000/-0.0007	$\frac{1}{4} \times \frac{1}{4} \times 115/16$	1.36
C402/C403	1.6250	+0.000/-0.0007	$\frac{3}{8} \times \frac{3}{8} \times 27/8$	1.79
C502/C503	1.6250	+0.000/-0.0007	$\frac{3}{8} \times \frac{3}{8} \times 27/8$	1.79
C612/C613	2.1250	+0.000/-0.0008	$\frac{1}{2} \times \frac{1}{2} \times 35/32$	2.35
C712/C713	2.3750	+0.000/-0.0008	$\frac{5}{8} \times \frac{5}{8} \times 315/16$	2.65
C812/C813	2.8750	+0.000/-0.0008	$\frac{3}{4} \times \frac{3}{4} \times 45/16$	3.21
C912/C913	3.6250	+0.000/-0.0009	$\frac{7}{8} \times \frac{7}{8} \times 51/2$	4.01

Table No. 4

"C" Series with ComTrac Dimensions (Inches)

ComTrac Part No.	NEMA C-Flange	DH	HL	TL	X	Y	Z
TD270K050	56C	4.92	5.67	7.87	2.09	5.55	4.41
TD270K140	143/145TC	4.92	5.67	7.87	2.09	5.55	4.41
TD370K140	143/145TC	4.92	5.91	8.50	2.17	5.67	4.37
TD470K180	182/184TC	6.30	6.81	8.94	2.80	7.20	5.59
TD570K180	182/184TC	7.87	8.31	11.89	3.11	8.11	6.30
TD670K210	213/215TC	7.87	9.17	12.17	3.86	9.02	7.13
TD760K210	213/215TC	9.84	9.72	14.25	4.29	9.37	7.68



"C" Series – MGS® Adjustable Speed Drives

Dimensional Data



Drawing for Units
C612N — C913N

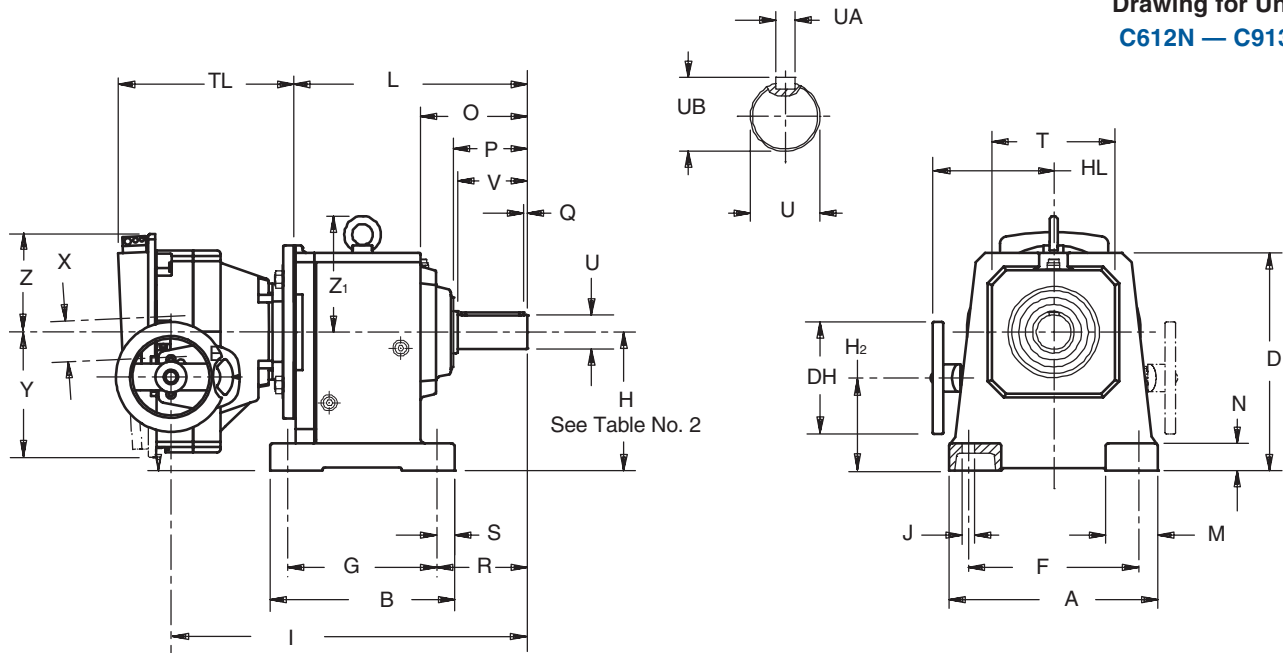


Table No. 5 "C" Series with ComTrac – Foot Mounting Unit Dimensions (Inches) – "N" Housing Style

Base	TD270K050 ⁽²⁾			TD370K140			TD470K180			TD570K180			TD670K210			TD760K210		
	H ₂	I	L	H ₂	I	L	H ₂	I	L	H ₂	I	L	H ₂	I	L	H ₂	I	L
C002	1.65	12.40	6.22	1.18	13.07	6.22	—	—	—	—	—	—	—	—	—	—	—	—
C102	2.44	13.70	7.52	1.97	14.37	7.52	1.42	14.49	7.60	—	—	—	—	—	—	—	—	—
C202	2.95	14.80	8.62	2.48	15.47	8.62	1.93	15.59	8.70	1.18	18.23	8.70	—	—	—	—	—	—
C203⁽¹⁾	1.50	16.50	10.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
C302	3.54	15.55	9.37	3.07	16.22	9.37	2.52	16.34	9.45	1.77	18.98	9.45	1.57	19.29	9.57	—	—	—
C303⁽¹⁾	2.09	17.24	11.06	1.61	17.91	11.06	—	—	—	—	—	—	—	—	—	—	—	—
C402	4.13	17.44	11.24	3.66	18.11	11.26	3.11	18.23	11.34	2.36	20.87	11.34	2.17	21.18	11.46	—	—	—
C403	4.13	19.13	12.95	3.66	19.80	12.95	—	—	—	—	—	—	—	—	—	—	—	—
C502	—	—	—	4.65	18.94	12.09	4.09	19.06	12.17	3.35	21.69	12.17	3.15	22.01	12.28	3.15	24.45	12.83
C503	5.12	19.96	13.78	4.65	20.63	13.78	—	—	—	—	—	—	—	—	—	—	—	—
C612⁽¹⁾	—	—	—	—	—	—	5.04	20.00	13.11	4.29	22.64	13.11	4.09	22.95	13.23	4.09	25.35	13.74
C613⁽¹⁾	6.06	20.94	14.76	5.59	21.61	14.76	5.04	22.44	15.55	4.29	25.08	15.55	—	—	—	—	—	—
C712	—	—	—	—	—	—	6.65	22.09	15.20	5.91	24.72	15.20	5.71	25.00	15.28	5.71	27.40	15.79
C713⁽¹⁾	—	—	—	—	—	—	6.65	24.49	17.60	5.91	27.13	17.60	6.46	27.80	18.07	—	—	—
C812	—	—	—	—	—	—	—	—	—	—	—	—	7.87	27.64	17.91	7.87	29.65	18.03
C813	—	—	—	—	—	—	8.82	27.13	20.24	8.07	29.76	20.24	7.87	30.43	20.71	—	—	—
C912	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.84	32.68	21.06
C913	—	—	—	—	—	—	—	—	—	—	—	—	9.84	32.28	22.56	9.84	35.94	24.33

⁽¹⁾ See Table No. 2. These sizes are not coaxial. H=Output Height, H₁=Input Height.

⁽²⁾ Also **TD270FK140** for a NEMA 143TC frame motor.

Table No. 6 "C" Series with ComTrac – Approximate Weight (lbs.)

Part Number	C002	C102	C202	C203	C302	C303	C402	C403	C502	C503	C612	C613	C712	C713	C812	C813	C912	C913
TD270K050⁽²⁾	51	62	71	78	82	89	104	111	128	144	—	148	—	—	—	—	—	—
TD370K140	69	80	89	—	100	107	122	129	146	162	—	210	—	—	—	—	—	—
TD470K180	—	88	97	—	108	—	130	—	154	—	174	218	258	280	—	401	—	—
TD570K180	—	—	126	—	137	—	159	—	183	—	203	247	287	309	—	430	—	—
TD670K210	—	—	—	—	179	—	201	—	225	—	245	—	329	351	452	472	—	808
TD760K210	—	—	—	—	—	—	—	—	289	—	309	—	393	—	516	—	790	872

⁽²⁾ Also **TD270FK140** for a NEMA 143TC frame motor.

Part No. Example

Foot Mounting with ComTrac, 56C Input, .75 HP motor
C302N0620 TD270K050-075