



CONTI® SYNCHROCHAIN CARBON

Zahnprofil / Toothed profile CTD C8M 10 mm – Leistungswert / Power Rating P_N in kW Tab. 26																
Drehzahl der kleinen Scheibe Speed of small pulley n_k (min ⁻¹) rpm	Zähnezahl der kleinen Zahnscheibe z_k Number of teeth of the small toothed pulley z_k															
	22	24	26	28	30	32	34	36	38	40	44	48	52	56	64	72
	Wirk-Ø d_w in mm Pitch diameter of toothed pulley d_w (mm)															
	56,02	61,12	66,12	71,30	76,39	81,49	86,58	91,77	96,77	101,86	112,05	122,23	132,42	142,6	162,97	183,35
10	0,06	0,07	0,08	0,09	0,10	0,10	0,11	0,12	0,13	0,14	0,16	0,17	0,19	0,21	0,25	0,29
20	0,12	0,14	0,15	0,16	0,18	0,19	0,21	0,23	0,24	0,26	0,29	0,33	0,36	0,40	0,47	0,54
40	0,23	0,25	0,28	0,31	0,34	0,36	0,39	0,42	0,45	0,48	0,55	0,61	0,67	0,74	0,88	1,02
100	0,52	0,58	0,64	0,71	0,77	0,84	0,90	0,97	1,04	1,11	1,25	1,40	1,54	1,70	2,01	2,33
200	0,97	1,09	1,20	1,32	1,44	1,56	1,69	1,81	1,94	2,07	2,34	2,61	2,89	3,18	3,76	4,37
300	1,40	1,57	1,73	1,90	2,08	2,25	2,43	2,62	2,80	2,99	3,37	3,77	4,17	4,58	5,43	6,30
400	1,82	2,03	2,25	2,47	2,69	2,92	3,16	3,39	3,64	3,88	4,38	4,89	5,41	5,94	7,04	8,17
500	2,23	2,48	2,75	3,02	3,30	3,58	3,86	4,15	4,45	4,75	5,36	5,98	6,62	7,27	8,61	9,99
600	2,62	2,93	3,24	3,56	3,89	4,22	4,56	4,90	5,24	5,60	6,31	7,05	7,80	8,57	10,15	11,78
700	3,02	3,37	3,73	4,09	4,47	4,85	5,24	5,63	6,03	6,43	7,26	8,10	8,97	9,85	11,67	13,55
800	3,40	3,80	4,21	4,62	5,04	5,47	5,91	6,35	6,80	7,26	8,19	9,14	10,12	11,12	13,17	15,28
1000	4,16	4,65	5,15	5,65	6,17	6,69	7,23	7,77	8,32	8,88	10,02	11,19	12,38	13,60	16,11	18,70
1200	4,91	5,48	6,07	6,66	7,27	7,89	8,52	9,16	9,81	10,47	11,82	13,19	14,60	16,04	18,99	22,05
1450	5,83	6,51	7,20	7,91	8,63	9,37	10,11	10,87	11,64	12,43	14,02	15,65	17,32	19,03	22,54	26,16
1600	6,37	7,11	7,87	8,64	9,43	10,24	11,05	11,88	12,73	13,58	15,32	17,11	18,94	20,80	24,64	28,60
1800	7,08	7,91	8,75	9,62	10,49	11,39	12,30	13,22	14,16	15,11	17,05	19,03	21,06	23,14	27,40	31,81
2000	7,79	8,70	9,63	10,58	11,54	12,53	13,52	14,54	15,57	16,62	18,75	20,93	23,17	25,45	30,14	34,99
2400	9,19	10,26	11,35	12,47	13,61	14,77	15,95	17,15	18,36	19,59	22,11	24,69	27,32	30,01	35,54	41,26
3000	11,24	12,55	13,89	15,26	16,65	18,07	19,51	20,98	22,46	23,97	27,05	30,20	33,43	36,72	43,48	50,48
3500	12,92	14,43	15,97	17,54	19,14	20,77	22,43	24,11	25,82	27,56	31,09	34,72	38,42	42,21	49,98	
4000	14,58	16,28	18,02	19,79	21,60	23,44	25,31	27,21	29,14	31,09	35,08	39,17	43,35	47,62		
4500	16,22	18,11	20,04	22,01	24,02	26,07	28,15	30,26	32,41	34,59	39,02	43,57	48,22			
5000	17,84	19,92	22,04	24,21	26,42	28,67	30,96	33,29	35,65	38,04	42,92	47,93				
5500	19,44	21,71	24,02	26,39	28,80	31,25	33,75	36,28	38,86	41,46	46,79	52,24				

Breitenfaktor / Width factor c_6 Tab. 27					
Zahnriemenbreite	Belt width	12	21	36	62
Breitenfaktor c_6	Width factor c_6	1,2	2,1	3,6	6,2

Hinweis: Die Breitenfaktoren werden ermittelt, indem die gewünschte Riemenbreite durch die Referenzbreite geteilt wird.
Note: The width factors are calculated by dividing the required width by the reference width.



CONTI® SYNCHROCHAIN CARBON

Zahnprofil / Toothed profile CTD C14M 10 mm – Leistungswert / Power Rating P_N in kW															Tab. 30
Drehzahl der kleinen Scheibe Speed of small pulley n_k (min ⁻¹) rpm	Zähnezahl der kleinen Zahnscheibe z_k Number of teeth of the small toothed pulley z_k														
	28	30	32	34	36	38	40	42	44	46	48	52	56	64	72
	Wirk-Ø d_w in mm Pitch diameter of toothed pulley d_w (mm)														
	124,78	133,69	142,6	151,52	160,43	169,34	178,25	187,17	196,08	204,99	213,90	231,73	249,55	285,21	320,86
10	0,40	0,43	0,46	0,49	0,52	0,55	0,58	0,62	0,65	0,68	0,71	0,78	0,84	0,98	1,11
20	0,71	0,76	0,82	0,87	0,93	0,99	1,04	1,10	1,16	1,22	1,28	1,39	1,51	1,75	1,99
40	1,26	1,36	1,46	1,56	1,66	1,76	1,87	1,97	2,07	2,17	2,28	2,49	2,70	3,12	3,55
100	2,72	2,94	3,15	3,37	3,58	3,80	4,02	4,24	4,46	4,68	4,91	5,35	5,81	6,72	7,64
200	4,86	5,24	5,63	6,01	6,40	6,79	7,18	7,57	7,97	8,37	8,76	9,57	10,37	12,00	13,65
300	6,83	7,36	7,90	8,44	8,99	9,53	10,08	10,64	11,19	11,75	12,31	13,43	14,56	16,85	19,16
400	8,69	9,37	10,05	10,74	11,43	12,13	12,83	13,53	14,24	14,95	15,66	17,09	18,53	21,44	24,38
500	10,47	11,29	12,12	12,95	13,78	14,62	15,46	16,31	17,16	18,02	18,87	20,60	22,33	25,84	29,39
600	12,20	13,16	14,12	15,08	16,06	17,03	18,01	19,00	19,99	20,99	21,99	23,99	26,02	30,10	34,24
700	13,88	14,97	16,06	17,16	18,27	19,38	20,50	21,62	22,75	23,88	25,01	27,30	29,60	34,25	38,95
800	15,52	16,74	17,96	19,19	20,43	21,67	22,92	24,18	25,44	26,70	27,97	30,53	33,10	38,30	43,56
1000	18,71	20,18	21,65	23,13	24,62	26,12	27,63	29,14	30,66	32,19	33,72	36,80	39,90	46,17	52,51
1200	21,80	23,50	25,22	26,95	28,68	30,43	32,18	33,95	35,72	37,49	39,28	42,87	46,48	53,78	61,17
1450	25,54	27,54	29,55	31,57	33,61	35,65	37,71	39,77	41,85	43,93	46,02	50,23	54,46	63,01	71,67
1600	27,73	29,90	32,09	34,29	36,50	38,72	40,95	43,19	45,44	47,70	49,97	54,54	59,14	68,43	77,82
1800	30,61	33,00	35,41	37,84	40,28	42,73	45,19	47,67	50,15	52,65	55,15	60,19	65,27	75,52	85,89
2000	33,43	36,05	38,68	41,33	43,99	46,67	49,36	52,06	54,78	57,50	60,24	65,74	71,29	82,48	93,81
2400	38,94	41,99	45,06	48,14	51,25	54,36	57,50	60,65	63,81	66,98	70,17	76,58	83,04	96,08	
3000	46,94	50,62	54,31	58,03	61,77	65,53	69,31	73,10	76,91	80,74	84,58	92,31	100,10		
3500	53,41	57,59	61,79	66,03	70,28	74,56	78,85	83,17	87,51	91,86	96,23				
4000	59,72	64,40	69,10	73,84	78,59	83,37	88,18	93,01	97,86	102,73					

Breitenfaktor / Width factor c_6						Tab. 31	
Zahnriemenbreite	Belt width		20	37	68	90	125
Breitenfaktor c_6	Width factor c_6		2	3,7	6,8	9	12,5

Hinweis: Die Breitenfaktoren werden ermittelt, indem die gewünschte Riemenbreite durch die Referenzbreite geteilt wird.
 Note: The width factors are calculated by dividing the required width by the reference width.

Horsepower Rating for 12mm Wide 8mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT		Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)																			
		22	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	45
10	2.206	2.506	2.607	2.707	2.807	2.907	3.008	3.108	3.208	3.308	3.409	3.509	3.609	3.709	3.810	3.910	4.010	4.110	4.211	4.511	
20																					
35																					
44																					
58																					
70																					
88	0.72	0.87	0.92	0.97	1.02	1.07	1.12	1.17	1.21	1.26	1.31	1.36	1.41	1.46	1.51	1.56	1.61	1.66	1.71	1.85	
100	0.79	0.96	1.02	1.08	1.13	1.19	1.24	1.30	1.35	1.41	1.46	1.52	1.57	1.63	1.68	1.74	1.79	1.85	1.90	2.06	
117	0.90	1.10	1.16	1.23	1.29	1.35	1.42	1.48	1.55	1.61	1.67	1.74	1.80	1.86	1.93	1.99	2.05	2.11	2.18	2.36	
175	1.27	1.55	1.64	1.73	1.82	1.91	2.01	2.10	2.19	2.28	2.37	2.46	2.55	2.64	2.73	2.82	2.91	3.00	3.09	3.36	
200	1.42	1.73	1.84	1.94	2.05	2.15	2.25	2.36	2.46	2.56	2.66	2.77	2.87	2.97	3.07	3.18	3.28	3.38	3.48	3.78	
233	1.62	1.98	2.10	2.22	2.34	2.45	2.57	2.69	2.81	2.93	3.05	3.16	3.28	3.40	3.52	3.63	3.75	3.87	3.98	4.33	
300	2.01	2.46	2.61	2.76	2.91	3.06	3.21	3.36	3.51	3.66	3.81	3.96	4.10	4.25	4.40	4.55	4.69	4.84	4.99	5.43	
350	2.29	2.82	2.99	3.16	3.34	3.51	3.68	3.85	4.02	4.20	4.37	4.54	4.71	4.88	5.05	5.22	5.39	5.55	5.72	6.23	
400	2.57	3.17	3.36	3.56	3.75	3.95	4.14	4.34	4.53	4.72	4.92	5.11	5.30	5.49	5.69	5.88	6.07	6.26	6.45	7.02	
500	3.12	3.85	4.09	4.33	4.57	4.81	5.05	5.29	5.53	5.76	6.00	6.24	6.47	6.71	6.95	7.18	7.41	7.65	7.88	8.58	
575	3.53	4.35	4.63	4.90	5.17	5.44	5.72	5.99	6.26	6.53	6.80	7.07	7.34	7.60	7.87	8.14	8.41	8.67	8.94	9.73	
600	3.66	4.52	4.80	5.09	5.37	5.65	5.94	6.22	6.50	6.78	7.06	7.34	7.62	7.90	8.18	8.46	8.73	9.01	9.29	10.1	
690	4.13	5.11	5.43	5.76	6.08	6.40	6.72	7.04	7.36	7.68	8.00	8.32	8.64	8.95	9.27	9.59	9.90	10.2	10.5	11.5	
700	4.18	5.17	5.50	5.83	6.16	6.48	6.81	7.14	7.46	7.78	8.11	8.43	8.75	9.07	9.39	9.71	10.0	10.4	10.7	11.6	
800	4.70	5.82	6.19	6.56	6.93	7.30	7.67	8.04	8.40	8.77	9.14	9.50	9.86	10.2	10.6	11.0	11.3	11.7	12.0	13.1	
870	5.05	6.26	6.67	7.07	7.47	7.86	8.27	8.66	9.06	9.45	9.85	10.2	10.6	11.0	11.4	11.8	12.2	12.6	13.0	14.1	
900	5.20	6.45	6.87	7.28	7.69	8.11	8.52	8.93	9.34	9.74	10.2	10.6	11.0	11.4	11.8	12.2	12.6	13.0	13.4	14.6	
1000	5.70	7.08	7.54	7.99	8.45	8.90	9.36	9.81	10.3	10.7	11.2	11.6	12.1	12.5	12.9	13.4	13.8	14.3	14.7	16.0	
1160	6.49	8.07	8.59	9.12	9.64	10.2	10.7	11.2	11.7	12.2	12.7	13.3	13.8	14.3	14.8	15.3	15.8	16.3	16.8	18.3	
1750	9.27	11.6	12.3	13.1	13.9	14.6	15.4	16.1	16.9	17.7	18.4	19.2	19.9	20.7	21.4	22.1	22.9	23.6	24.4	26.6	
2000	10.4	13.0	13.9	14.7	15.6	16.5	17.3	18.2	19.0	19.9	20.7	21.6	22.4	23.3	24.1	25.0	25.8	26.6	27.5	29.9	
3000	14.7	18.5	19.8	21.0	22.3	23.5	24.8	26.0	27.2	28.5	29.7	30.9	32.1	33.4	34.6	35.8	37.0	38.2	39.4	43.0	
3450	16.6	20.9	22.3	23.8	25.2	26.6	28.0	29.4	30.8	32.2	33.6	35.0	36.3	37.7	39.1	40.5	41.8	43.2	44.5	48.6	
4000	18.8	23.7	25.4	27.0	28.6	30.2	31.8	33.4	35.0	36.6	38.2	39.8	41.4	42.9	44.5	46.0	47.6	49.1	50.7	55.2	
4500	20.8	26.3	28.1	29.9	31.7	33.5	35.2	37.0	38.8	40.5	42.3	44.0	45.8	47.5	49.2	50.9	52.7	54.4	56.1	61.1	
5000	22.7	28.7	30.7	32.7	34.6	36.6	38.6	40.5	42.4	44.4	46.3	48.2	50.1	52.0	53.9	55.7	57.6	59.4	61.3	66.8	
5500	24.6	31.1	33.3	35.4	37.5	39.7	41.8	43.9	46.0	48.1	50.2	52.2	54.3	56.3	58.4	60.4	62.4	64.4	66.4	72.2	

Drives in this area should be designed using Design Flex® Pro.
Please consult www.gates.com/drivedesign for details.

Use this sprocket only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section for details.

Poly Chain® GT® Carbon® Belt Length Correction Factor Table							
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth
8MGT-248	31	0.42	8MGT-1600	200	1.14	8MGT-2800	350
8MGT-288	36	0.48	8MGT-1760	220	1.17	8MGT-2840	355
8MGT-332	44	0.56	8MGT-1792	224	1.18	8MGT-3048	381
8MGT-416	57	0.62	8MGT-2000	250	1.22	8MGT-3200	400
8MGT-456	62	0.66	8MGT-2200	275	1.26	8MGT-3280	410
8MGT-480	60	0.68	8MGT-2240	280	1.28	8MGT-3600	450
8MGT-544	68	0.72	8MGT-2400	300	1.29	8MGT-4000	500
8MGT-608	76	0.77	8MGT-1224	153	1.31	8MGT-4400	550
8MGT-640	80	0.79	8MGT-1280	160	1.05	8MGT-4800	600
8MGT-720	90	0.83	8MGT-1440	180	1.10	8MGT-4480	560



Horsepower Rating for 12mm Wide

8mm Pitch Poly Chain® GT® Carbon® Belts

Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)										Additional Horsepower per belt for Speed Ratio of Speed-Down Drives										RPM OF FASTER SHAFT
48	50	53	56	60	63	67	71	75	80	1.00 to 1.02	1.03 to 1.05	1.06 to 1.10	1.11 to 1.15	1.16 to 1.21	1.22 to 1.30	1.31 to 1.43	1.44 to 1.64	1.65 to 2.15	2.16 to Over	
4,812	5,013	5,314	5,614	6,015	6,316	6,717	7,118	7,519	8,020	Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.										10
2.00	2.09	2.24	2.38	2.57	2.72	2.91	3.10	3.29	3.52	Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.										20
2.23	2.34	2.50	2.66	2.87	3.03	3.25	3.46	3.67	3.93	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.08
2.55	2.68	2.86	3.05	3.29	3.48	3.72	3.97	4.21	4.51	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.10	0.11
3.63	3.81	4.07	4.34	4.69	4.96	5.31	5.66	6.00	6.44	0.00	0.01	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.13	
4.08	4.29	4.59	4.89	5.28	5.58	5.98	6.37	6.76	7.25	0.00	0.02	0.03	0.05	0.06	0.09	0.10	0.11	0.13	0.14	
4.68	4.91	5.25	5.60	6.05	6.40	6.85	7.30	7.75	8.31	0.00	0.02	0.04	0.06	0.07	0.09	0.11	0.13	0.15	0.17	
5.86	6.15	6.59	7.02	7.59	8.02	8.59	9.16	9.73	10.4	0.00	0.02	0.05	0.07	0.10	0.12	0.14	0.17	0.19	0.21	
6.73	7.07	7.57	8.06	8.72	9.22	9.87	10.5	11.2	12.0	0.00	0.03	0.06	0.08	0.11	0.14	0.17	0.19	0.22	0.25	
7.59	7.97	8.53	9.09	9.84	10.4	11.1	11.9	12.6	13.5	0.00	0.03	0.06	0.10	0.13	0.16	0.19	0.22	0.25	0.29	
9.28	9.74	10.4	11.1	12.0	12.7	13.6	14.5	15.4	16.6	0.00	0.04	0.08	0.12	0.16	0.20	0.24	0.28	0.32	0.36	
10.5	11.1	11.8	12.6	13.7	14.4	15.5	16.5	17.5	18.8	0.00	0.05	0.09	0.14	0.18	0.23	0.27	0.32	0.37	0.41	
10.9	11.5	12.3	13.1	14.2	15.0	16.1	17.2	18.2	19.5	0.00	0.05	0.10	0.14	0.19	0.24	0.29	0.33	0.38	0.43	
12.4	13.0	14.0	14.9	16.1	17.0	18.3	19.5	20.7	22.2	0.00	0.06	0.11	0.16	0.22	0.27	0.33	0.38	0.44	0.49	
12.6	13.2	14.1	15.1	16.3	17.3	18.5	19.7	21.0	22.5	0.00	0.06	0.11	0.17	0.22	0.28	0.33	0.39	0.45	0.50	
14.2	14.9	16.0	17.0	18.4	19.5	20.9	22.3	23.7	25.4	0.00	0.06	0.13	0.19	0.25	0.32	0.38	0.45	0.51	0.57	
15.3	16.1	17.2	18.4	19.9	21.0	22.5	24.0	25.5	27.4	0.00	0.07	0.14	0.21	0.28	0.35	0.42	0.48	0.55	0.62	
15.8	16.6	17.8	18.9	20.5	21.7	23.2	24.8	26.3	28.2	0.00	0.07	0.14	0.22	0.29	0.36	0.43	0.50	0.57	0.64	
17.4	18.2	19.5	20.8	22.6	23.9	25.6	27.3	29.0	31.1	0.00	0.08	0.16	0.24	0.32	0.40	0.48	0.56	0.64	0.72	
19.9	20.9	22.4	23.8	25.8	27.3	29.3	31.3	33.1	35.6	0.00	0.09	0.18	0.28	0.37	0.46	0.55	0.65	0.74	0.83	
28.8	30.2	32.4	34.6	37.4	39.6	42.4	45.2	48.0	51.5	0.00	0.14	0.28	0.42	0.56	0.70	0.84	0.97	1.11	1.25	
32.4	34.1	36.5	39.0	42.2	44.6	47.8	51.0	54.1	58.0	0.00	0.16	0.32	0.48	0.64	0.80	0.95	1.11	1.27	1.43	
46.5	48.9	52.4	55.8	60.4	63.8	68.3	72.7	77.1	82.5	0.00	0.24	0.48	0.72	0.95	1.19	1.43	1.67	1.91	2.15	
52.6	55.2	59.2	63.0	68.2	72.0	77.0	81.9			0.00	0.28	0.55	0.82	1.10	1.37	1.65	1.92	2.20	2.47	
59.8	62.7	67.2	71.6	77.3						0.00	0.32	0.64	0.96	1.27	1.59	1.91	2.23	2.55	2.86	
66.1	69.3	74.2								0.00	0.36	0.72	1.08	1.43	1.79	2.15	2.51	2.87	3.22	
72.1	75.7									0.00	0.40	0.79	1.19	1.59	1.99	2.39	2.78	3.18	3.58	
										0.00	0.44	0.87	1.31	1.75	2.19	2.63	3.06	3.50	3.94	

Poly Chain® GT® Carbon® Belt Length Correction Factor Table											
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
8MGT-248	31	0.42	8MGT-800	100	0.87	8MGT-1600	200	1.14	8MGT-2800	350	1.35
8MGT-288	36	0.48	8MGT-896	112	0.91	8MGT-1760	220	1.17	8MGT-2840	355	1.36
8MGT-352	44	0.56	8MGT-960	120	0.94	8MGT-1792	224	1.18	8MGT-3048	381	1.38
8MGT-416	52	0.62	8MGT-1000	125	0.96	8MGT-2000	250	1.22	8MGT-3200	400	1.40
8MGT-456	57	0.66	8MGT-1040	130	0.97	8MGT-2200	275	1.26	8MGT-3280	410	1.41
8MGT-480	60	0.68	8MGT-1120	140	1.00	8MGT-2240	280	1.26	8MGT-3600	450	1.45
8MGT-544	68	0.72	8MGT-1200	150	1.03	8MGT-2400	300	1.29	8MGT-4000	500	1.49
8MGT-608	76	0.77	8MGT-1224	153	1.03	8MGT-2520	315	1.31	8MGT-4400	550	1.52
8MGT-640	80	0.79	8MGT-1280	160	1.05	8MGT-2600	325	1.32	8MGT-4480	560	1.53
8MGT-720	90	0.83	8MGT-1440	180	1.10						



Horsepower Rating for 21mm Wide 8mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)																			
	22	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	45
10	2,206	2,506	2,607	2,707	2,807	2,907	3,008	3,108	3,208	3,308	3,409	3,509	3,609	3,709	3,810	3,910	4,010	4,110	4,211	4,511
20																				
35																				
44																				
58																				
70																				
88	1.25	1.52	1.60	1.69	1.78	1.86	1.95	2.04	2.13	2.21	2.30	2.38	2.47	2.56	2.64	2.73	2.81	2.90	2.98	3.24
100	1.39	1.69	1.78	1.88	1.98	2.08	2.17	2.27	2.37	2.46	2.56	2.66	2.75	2.85	2.95	3.04	3.14	3.23	3.33	3.61
117	1.58	1.92	2.04	2.15	2.26	2.37	2.48	2.59	2.71	2.82	2.93	3.04	3.15	3.26	3.37	3.48	3.59	3.70	3.81	4.14
175	2.22	2.71	2.87	3.03	3.19	3.35	3.51	3.67	3.83	3.99	4.15	4.31	4.47	4.62	4.78	4.94	5.10	5.26	5.41	5.88
200	2.49	3.03	3.22	3.40	3.58	3.76	3.94	4.12	4.30	4.48	4.66	4.84	5.02	5.20	5.38	5.56	5.73	5.91	6.09	6.62
233	2.83	3.46	3.67	3.88	4.09	4.30	4.51	4.71	4.92	5.13	5.33	5.54	5.74	5.95	6.15	6.36	6.56	6.77	6.97	7.58
300	3.52	4.31	4.58	4.84	5.10	5.36	5.62	5.89	6.15	6.40	6.67	6.93	7.18	7.44	7.70	7.96	8.21	8.47	8.73	9.49
350	4.02	4.93	5.24	5.54	5.84	6.14	6.44	6.74	7.04	7.34	7.64	7.94	8.24	8.54	8.83	9.13	9.43	9.72	10.0	10.9
400	4.51	5.54	5.89	6.23	6.57	6.91	7.25	7.59	7.93	8.27	8.61	8.94	9.28	9.62	9.95	10.3	10.6	11.0	11.3	12.3
500	5.47	6.74	7.16	7.58	8.00	8.42	8.84	9.25	9.67	10.1	10.5	10.9	11.3	11.7	12.2	12.6	13.0	13.4	13.8	15.0
575	6.17	7.61	8.10	8.58	9.05	9.53	10.0	10.5	11.0	11.4	11.9	12.4	12.8	13.3	13.8	14.2	14.7	15.2	15.6	17.0
600	6.40	7.90	8.41	8.90	9.40	9.89	10.4	10.9	11.4	11.9	12.4	12.8	13.3	13.8	14.3	14.8	15.3	15.8	16.3	17.7
690	7.23	8.94	9.51	10.1	10.6	11.2	11.8	12.3	12.9	13.4	14.0	14.6	15.1	15.7	16.2	16.8	17.3	17.9	18.4	20.1
700	7.32	9.05	9.63	10.2	10.8	11.3	11.9	12.5	13.1	13.6	14.2	14.8	15.3	15.9	16.4	17.0	17.6	18.1	18.7	20.3
800	8.22	10.2	10.8	11.5	12.1	12.8	13.4	14.1	14.7	15.3	16.0	16.6	17.3	17.9	18.5	19.2	19.8	20.4	21.1	22.9
870	8.84	11.0	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.5	17.2	17.9	18.6	19.3	20.0	20.7	21.4	22.0	22.7	24.8
900	9.11	11.3	12.0	12.7	13.5	14.2	14.9	15.6	16.3	17.1	17.8	18.5	19.2	19.9	20.6	21.3	22.0	22.7	23.4	25.5
1000	9.98	12.4	13.2	14.0	14.8	15.6	16.4	17.2	18.0	18.7	19.5	20.3	21.1	21.9	22.7	23.4	24.2	25.0	25.8	28.1
1160	11.4	14.1	15.0	16.0	16.9	17.8	18.7	19.6	20.5	21.4	22.3	23.2	24.1	25.0	25.9	26.8	27.7	28.6	29.5	32.1
1750	16.2	20.3	21.6	22.9	24.3	25.6	26.9	28.3	29.6	30.9	32.2	33.5	34.8	36.1	37.5	38.7	40.0	41.3	42.6	46.5
2000	18.2	22.8	24.3	25.8	27.3	28.8	30.3	31.8	33.3	34.8	36.3	37.8	39.2	40.7	42.2	43.7	45.1	46.6	48.1	52.4
3000	25.8	32.4	34.6	36.8	39.0	41.2	43.4	45.5	47.7	49.8	52.0	54.1	56.3	58.4	60.5	62.6	64.7	66.8	68.9	75.2
3450	29.1	36.6	39.1	41.6	44.1	46.5	49.0	51.5	53.9	56.3	58.8	61.2	63.6	66.0	68.4	70.8	73.2	75.6	78.0	85.0
4000	32.9	41.5	44.4	47.3	50.1	52.9	55.7	58.5	61.3	64.1	66.9	69.6	72.4	75.1	77.8	80.6	83.3	86.0	88.7	96.6
4500	36.4	45.9	49.1	52.3	55.4	58.5	61.7	64.8	67.9	70.9	74.0	77.1	80.1	83.1	86.2	89.2	92.1	95.1	98.1	106.9
5000	39.7	50.2	53.7	57.2	60.6	64.1	67.5	70.9	74.3	77.6	81.0	84.3	87.6	90.9	94.3	97.5	100.8	104.0	107.3	116.8
5500	43.0	54.4	58.2	62.0	65.7	69.4	73.2	76.8	80.5	84.1	87.8	91.4	95.0	98.5	102.1	105.6	109.1	112.6	116.1	126.4

Drives in this area should be designed using Design Flex® Pro.
Please consult www.gates.com/drivedesign for details.

Use this sprocket only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section for details.

Poly Chain® GT® Carbon® Belt Length Correction Factor Table											
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
8MGT-248	31	0.42	8MGT-900	100	0.87	8MGT-1600	200	1.14	8MGT-2800	350	1.35
8MGT-288	36	0.48	8MGT-960	112	0.91	8MGT-1760	220	1.17	8MGT-2840	355	1.36
8MGT-352	44	0.56	8MGT-960	120	0.94	8MGT-1792	224	1.18	8MGT-3048	381	1.38
8MGT-416	52	0.62	8MGT-1000	125	0.96	8MGT-2000	250	1.22	8MGT-3200	400	1.40
8MGT-456	57	0.66	8MGT-1040	130	0.97	8MGT-2200	275	1.26	8MGT-3280	410	1.41
8MGT-480	60	0.68	8MGT-1120	140	1.00	8MGT-2240	280	1.28	8MGT-3600	450	1.45
8MGT-544	68	0.72	8MGT-1200	150	1.03	8MGT-2400	300	1.29	8MGT-4000	500	1.49
8MGT-608	76	0.77	8MGT-1224	153	1.05	8MGT-2520	315	1.31	8MGT-4400	550	1.52
8MGT-640	80	0.79	8MGT-1280	160	1.06	8MGT-2600	325	1.32	8MGT-4480	560	1.53
8MGT-720	90	0.83	8MGT-1440	180	1.10						





Horsepower Rating for 21mm Wide 8mm Pitch Poly Chain® GT® Carbon® Belts

Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)										Additional Horsepower per belt for Speed Ratio of Speed-Down Drives						RPM OF FASTER SHAFT				
48	50	53	56	60	63	67	71	75	80	1.00 to 1.02	1.03 to 1.05	1.06 to 1.10	1.11 to 1.15	1.16 to 1.21	1.22 to 1.30		1.31 to 1.43	1.44 to 1.64	1.65 to 2.15	2.16 and Over
4.812	5.013	5.314	5.614	6.015	6.316	6.717	7.118	7.519	8.020	Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.										10
3.49	3.66	3.92	4.17	4.50	4.75	5.09	5.42	5.75	6.16	0.00	0.01	0.02	0.04	0.05	0.06	0.07	0.09	0.10	0.11	70
3.90	4.09	4.37	4.65	5.03	5.31	5.68	6.05	6.42	6.88	0.00	0.01	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.13	88
4.46	4.68	5.01	5.33	5.76	6.08	6.51	6.94	7.36	7.89	0.00	0.02	0.03	0.05	0.07	0.08	0.10	0.11	0.13	0.15	100
6.35	6.66	7.13	7.59	8.21	8.67	9.29	9.90	10.5	11.3	0.00	0.02	0.05	0.07	0.10	0.12	0.15	0.17	0.19	0.22	117
7.15	7.50	8.03	8.55	9.25	9.77	10.5	11.1	11.8	12.7	0.00	0.03	0.06	0.08	0.11	0.14	0.17	0.19	0.22	0.25	175
8.19	8.59	9.20	9.80	10.6	11.2	12.0	12.8	13.6	14.5	0.00	0.03	0.06	0.10	0.13	0.16	0.19	0.23	0.26	0.29	200
10.3	10.8	11.5	12.3	13.3	14.0	15.0	16.0	17.0	18.3	0.00	0.04	0.08	0.13	0.17	0.21	0.25	0.29	0.33	0.38	233
11.8	12.4	13.2	14.1	15.3	16.1	17.3	18.4	19.6	21.0	0.00	0.05	0.10	0.15	0.19	0.24	0.29	0.34	0.39	0.44	300
13.3	13.9	14.9	15.9	17.2	18.2	19.5	20.8	22.1	23.7	0.00	0.06	0.11	0.17	0.22	0.28	0.33	0.39	0.45	0.50	350
16.2	17.0	18.3	19.5	21.1	22.3	23.9	25.4	27.0	29.0	0.00	0.07	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	400
18.4	19.3	20.7	22.1	23.9	25.3	27.1	28.9	30.7	32.9	0.00	0.08	0.16	0.24	0.32	0.40	0.48	0.56	0.64	0.72	500
19.1	20.1	21.5	23.0	24.9	26.3	28.1	30.0	31.9	34.2	0.00	0.08	0.17	0.25	0.33	0.42	0.50	0.58	0.67	0.75	575
21.7	22.8	24.4	26.1	28.2	29.8	32.0	34.1	36.2	38.8	0.00	0.10	0.19	0.29	0.38	0.48	0.58	0.67	0.77	0.86	600
22.0	23.1	24.8	26.4	28.6	30.2	32.4	34.5	36.7	39.3	0.00	0.10	0.19	0.29	0.39	0.49	0.58	0.68	0.78	0.88	690
24.8	26.1	27.9	29.8	32.3	34.1	36.5	39.0	41.4	44.4	0.00	0.11	0.22	0.33	0.45	0.56	0.67	0.78	0.89	1.00	700
26.8	28.1	30.1	32.2	34.8	36.8	39.4	42.1	44.7	47.9	0.00	0.12	0.24	0.36	0.48	0.61	0.73	0.85	0.97	1.09	800
27.6	29.0	31.1	33.2	35.9	38.0	40.7	43.4	46.1	49.4	0.00	0.13	0.25	0.38	0.50	0.63	0.75	0.88	1.00	1.13	870
30.4	31.9	34.2	36.5	39.5	41.8	44.8	47.7	50.7	54.4	0.00	0.14	0.28	0.42	0.56	0.70	0.84	0.97	1.11	1.25	900
34.7	36.5	39.1	41.7	45.2	47.8	51.2	54.6	58.0	62.2	0.00	0.16	0.32	0.49	0.65	0.81	0.97	1.13	1.29	1.45	1000
50.3	52.9	56.7	60.5	65.5	69.2	74.2	79.1	84.0	90.1	0.00	0.24	0.49	0.73	0.97	1.22	1.46	1.71	1.95	2.19	1750
56.7	59.6	63.9	68.2	73.8	78.1	83.6	89.2	94.7	101.5	0.00	0.28	0.56	0.84	1.11	1.39	1.67	1.95	2.23	2.51	2000
81.4	85.5	91.6	97.7	105.7	111.7	119.5	127.3	135.0	144.4	0.00	0.42	0.83	1.25	1.67	2.09	2.51	2.92	3.34	3.76	3000
92.0	96.6	103.5	110.3	119.3	126.0	134.7	143.4			0.00	0.48	0.96	1.44	1.92	2.40	2.88	3.36	3.84	4.32	3450
104.6	109.8	117.6	125.2	135.3						0.00	0.56	1.11	1.67	2.23	2.79	3.34	3.90	4.46	5.01	4000
115.6	121.4	129.9								0.00	0.63	1.25	1.88	2.51	3.13	3.76	4.39	5.01	5.64	4500
126.3	132.5									0.00	0.70	1.39	2.09	2.78	3.48	4.18	4.87	5.57	6.27	5000
										0.00	0.77	1.53	2.30	3.06	3.83	4.60	5.36	6.13	6.89	5500

Poly Chain® GT® Carbon® Belt Length Correction Factor Table

Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
8MGT-248	31	0.42	8MGT-1600	200	1.14
8MGT-288	36	0.48	8MGT-1760	220	1.17
8MGT-352	44	0.56	8MGT-1792	224	1.18
8MGT-416	52	0.62	8MGT-2000	250	1.22
8MGT-456	57	0.66	8MGT-2200	275	1.26
8MGT-480	60	0.68	8MGT-2200	275	1.26
8MGT-544	68	0.72	8MGT-2940	280	1.45
8MGT-608	76	0.77	8MGT-3400	300	1.29
8MGT-640	80	0.79	8MGT-3520	315	1.31
8MGT-720	90	0.83	8MGT-4000	500	1.49
			8MGT-4400	550	1.52
			8MGT-4480	560	1.53

Horsepower Rating for 36mm Wide 8mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)																	
	22 2.206	25 2.506	28 2.807	30 3.008	32 3.208	33 3.308	34 3.409	35 3.509	36 3.609	37 3.709	38 3.810	39 3.910	40 4.010	41 4.110	42 4.211	45 4.511	48 4.812	50 5.013
10																		
20																		
35																		
44																		
58																		
70																		
88	2.15	2.60	3.05	3.35	3.64	3.79	3.94	4.09	4.23	4.38	4.53	4.68	4.82	4.97	5.12	5.55	5.99	6.28
100	2.38	2.89	3.39	3.73	4.06	4.22	4.39	4.56	4.72	4.88	5.05	5.21	5.38	5.54	5.71	6.19	6.68	7.01
117	2.71	3.29	3.87	4.26	4.64	4.83	5.02	5.21	5.40	5.59	5.78	5.97	6.15	6.34	6.53	7.09	7.65	8.03
175	3.80	4.64	5.47	6.02	6.57	6.84	7.11	7.38	7.66	7.93	8.20	8.47	8.74	9.01	9.28	10.1	10.9	11.4
200	4.26	5.20	6.14	6.76	7.38	7.68	7.99	8.30	8.61	8.91	9.22	9.53	9.83	10.1	10.4	11.3	12.3	12.9
233	4.85	5.93	7.01	7.72	8.43	8.79	9.14	9.49	9.85	10.2	10.6	10.9	11.2	11.6	12.0	13.0	14.0	14.7
300	6.03	7.39	8.74	9.64	10.5	11.0	11.4	11.9	12.3	12.8	13.2	13.6	14.1	14.5	15.0	16.3	17.6	18.5
350	6.88	8.45	10.0	11.0	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.7	16.2	16.7	17.2	18.7	20.2	21.2
400	7.72	9.50	11.3	12.4	13.6	14.2	14.8	15.3	15.9	16.5	17.1	17.6	18.2	18.8	19.4	21.1	22.8	23.9
500	9.37	11.5	13.7	15.2	16.6	17.3	18.0	18.7	19.4	20.1	20.8	21.5	22.2	22.9	23.6	25.7	27.8	29.2
575	10.6	13.1	15.5	17.2	18.8	19.6	20.4	21.2	22.0	22.8	23.6	24.4	25.2	26.0	26.8	29.2	31.6	33.2
600	11.0	13.5	16.1	17.8	19.5	20.3	21.2	22.0	22.9	23.7	24.5	25.4	26.2	27.0	27.9	30.3	32.8	34.5
690	12.4	15.3	18.2	20.2	22.1	23.0	24.0	25.0	25.9	26.9	27.8	28.8	29.7	30.7	31.6	34.4	37.2	39.1
700	12.5	15.5	18.5	20.4	22.4	23.3	24.3	25.3	26.3	27.2	28.2	29.1	30.1	31.0	32.0	34.9	37.7	39.6
800	14.1	17.5	20.8	23.0	25.2	26.3	27.4	28.5	29.6	30.7	31.8	32.9	33.9	35.0	36.1	39.3	42.6	44.7
870	15.2	18.8	22.4	24.8	27.2	28.4	29.6	30.7	31.9	33.1	34.3	35.4	36.6	37.8	39.0	42.4	45.9	48.2
900	15.6	19.4	23.1	25.6	28.0	29.2	30.5	31.7	32.9	34.1	35.3	36.5	37.7	38.9	40.2	43.8	47.3	49.7
1000	17.1	21.2	25.3	28.1	30.8	32.1	33.5	34.8	36.2	37.5	38.8	40.2	41.5	42.8	44.2	48.1	52.1	54.7
1160	19.5	24.2	28.9	32.0	35.1	36.7	38.2	39.8	41.3	42.8	44.4	45.9	47.4	49.0	50.5	55.0	59.6	62.6
1750	27.8	34.7	41.6	46.2	50.7	53.0	55.2	57.5	59.7	61.9	64.2	66.4	68.6	70.9	73.1	79.7	86.3	90.7
2000	31.2	39.0	46.8	52.0	57.1	59.6	62.2	64.8	67.3	69.8	72.3	74.9	77.4	79.9	82.4	89.8	97.3	102.2
3000	44.2	55.6	66.9	74.3	81.7	85.4	89.1	92.8	96.4	100.1	103.7	107.4	111.0	114.6	118.2	128.9	139.5	146.6
3450	49.8	62.7	75.5	84.0	92.4	96.6	100.8	104.9	109.0	113.2	117.3	121.4	125.5	129.5	133.6	145.7	157.7	165.7
4000	56.5	71.2	85.9	95.5	105.1	109.8	114.6	119.3	124.0	128.7	133.4	138.1	142.7	147.3	152.0	165.7	179.3	188.2
4500	62.3	78.7	95.0	105.7	116.3	121.6	126.9	132.1	137.3	142.5	147.7	152.8	158.0	163.0	168.2	183.2	198.2	208.0
5000	68.1	86.1	103.9	115.7	127.3	133.1	138.9	144.6	150.2	155.9	161.6	167.2	172.8	178.3	183.9	200.3	216.4	227.1
5500	73.7	93.3	112.6	125.4	138.0	144.2	150.5	156.7	162.8	168.9	175.1	181.1	187.1	193.1	199.1	216.7	233.9	246.4

Drives in this area should be designed using Design Flex® Pro.
Please consult www.gates.com/drivedesign for details.

Use this sprocket only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section for details.

Poly Chain® GT® Carbon® Belt Length Correction Factor Table						
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation
8MGT-248	31	0.42	8MGT-1600	200	1.14	8MGT-2800
8MGT-288	36	0.48	8MGT-1760	220	1.17	8MGT-2840
8MGT-352	44	0.56	8MGT-1792	224	1.18	8MGT-3048
8MGT-416	52	0.62	8MGT-2000	250	1.22	8MGT-3200
8MGT-456	57	0.66	8MGT-2200	275	1.26	8MGT-3280
8MGT-480	60	0.68	8MGT-2240	280	1.28	8MGT-3600
8MGT-544	68	0.72	8MGT-2400	300	1.29	8MGT-4000
8MGT-608	76	0.77	8MGT-1224	153	1.31	8MGT-4400
8MGT-640	80	0.79	8MGT-1280	160	1.32	8MGT-4800
8MGT-720	90	0.83	8MGT-1440	180	1.32	



Horsepower Rating for 36mm Wide 8mm Pitch Poly Chain® GT® Carbon® Belts

Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)										Additional Horsepower per belt for Speed Ratio of Speed-Down Drives										RPM OF FASTER SHAFT
53 5.314	56 5.614	60 6.015	63 6.316	67 6.717	71 7.118	75 7.519	80 8.020	1.00 to 1.02	1.03 to 1.05	1.06 to 1.10	1.11 to 1.15	1.16 to 1.21	1.22 to 1.30	1.31 to 1.43	1.44 to 1.64	1.65 to 2.15	2.16 to Over			
Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.										Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.										10
6.71	7.14	7.72	8.15	8.72	9.29	9.86	10.6	0.00	0.02	0.04	0.06	0.08	0.11	0.13	0.15	0.17	0.19	88		
7.49	7.98	8.62	9.10	9.74	10.4	11.0	11.8	0.00	0.02	0.05	0.07	0.10	0.12	0.14	0.17	0.19	0.21	100		
8.59	9.14	9.88	10.4	11.2	11.9	12.6	13.5	0.00	0.03	0.06	0.08	0.11	0.14	0.17	0.20	0.22	0.25	117		
12.2	13.0	14.1	14.9	15.9	17.0	18.0	19.3	0.00	0.04	0.08	0.13	0.17	0.21	0.25	0.29	0.33	0.38	175		
13.8	14.7	15.8	16.7	17.9	19.1	20.3	21.7	0.00	0.05	0.10	0.14	0.19	0.24	0.29	0.33	0.38	0.43	200		
15.8	16.8	18.2	19.2	20.5	21.9	23.3	24.9	0.00	0.06	0.11	0.17	0.22	0.28	0.33	0.39	0.45	0.50	233		
19.8	21.1	22.8	24.1	25.8	27.5	29.2	31.3	0.00	0.07	0.14	0.22	0.29	0.36	0.43	0.50	0.57	0.64	300		
22.7	24.2	26.2	27.7	29.6	31.6	33.5	36.0	0.00	0.08	0.17	0.25	0.33	0.42	0.50	0.58	0.67	0.75	350		
25.6	27.3	29.5	31.2	33.4	35.6	37.8	40.6	0.00	0.10	0.19	0.29	0.38	0.48	0.57	0.67	0.76	0.86	400		
31.3	33.4	36.1	38.2	40.9	43.6	46.3	49.7	0.00	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.07	500		
35.5	37.9	41.0	43.3	46.4	49.5	52.6	56.4	0.00	0.14	0.27	0.41	0.55	0.69	0.82	0.96	1.10	1.24	575		
39.4	39.4	42.6	45.0	48.3	51.5	54.7	58.6	0.00	0.17	0.33	0.49	0.66	0.82	0.96	1.10	1.24	1.38	600		
41.9	44.7	48.4	51.1	54.8	58.4	62.1	66.6	0.00	0.17	0.33	0.49	0.66	0.82	0.96	1.10	1.24	1.38	690		
42.4	45.3	49.0	51.8	55.5	59.2	62.9	67.4	0.00	0.17	0.33	0.50	0.67	0.84	1.00	1.17	1.34	1.50	700		
47.9	51.1	55.3	58.5	62.7	66.8	71.0	76.1	0.00	0.19	0.38	0.57	0.76	0.95	1.15	1.34	1.53	1.72	800		
51.7	55.1	59.7	63.1	67.6	72.1	76.6	82.2	0.00	0.21	0.41	0.62	0.83	1.04	1.25	1.45	1.66	1.87	870		
53.3	56.8	61.5	65.1	69.7	74.4	79.0	84.7	0.00	0.22	0.43	0.65	0.86	1.07	1.29	1.50	1.72	1.93	900		
58.6	62.5	67.7	71.6	76.7	81.8	86.9	93.2	0.00	0.24	0.48	0.72	0.95	1.19	1.43	1.67	1.91	2.15	1000		
67.1	71.5	77.5	81.9	87.8	93.6	99.4	106.7	0.00	0.28	0.55	0.83	1.11	1.38	1.66	1.94	2.22	2.49	1160		
97.2	103.7	112.3	118.7	127.2	135.7	144.0	154.5	0.00	0.42	0.83	1.25	1.67	2.09	2.51	2.92	3.34	3.76	1750		
109.6	116.9	126.6	133.8	143.4	152.9	162.3	174.0	0.00	0.48	0.95	1.43	1.91	2.39	2.86	3.34	3.82	4.30	2000		
157.1	167.5	181.2	191.4	204.9	218.2	231.4	247.6	0.00	0.72	1.43	2.15	2.86	3.58	4.30	5.01	5.73	6.44	3000		
177.5	189.1	204.5	216.0	231.0	245.8			0.00	0.83	1.65	2.47	3.29	4.12	4.94	5.76	6.59	7.41	3450		
201.5	214.7	231.9						0.00	0.96	1.91	2.87	3.82	4.77	5.73	6.68	7.64	8.59	4000		
222.6								0.00	1.08	2.15	3.23	4.30	5.37	6.45	7.52	8.60	9.67	4500		
								0.00	1.20	2.38	3.58	4.77	5.97	7.16	8.35	9.55	10.7	5000		
								0.00	1.32	2.62	3.94	5.25	6.56	7.88	9.19	10.5	11.8	5500		

Poly Chain® GT® Carbon® Belt Length Correction Factor Table											
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
8MGT-248	31	0.42	8MGT-800	100	0.87	8MGT-1600	200	1.14	8MGT-2800	350	1.35
8MGT-288	36	0.48	8MGT-896	112	0.91	8MGT-1760	220	1.17	8MGT-2840	355	1.36
8MGT-352	44	0.56	8MGT-960	120	0.94	8MGT-1792	224	1.18	8MGT-3048	381	1.38
8MGT-416	52	0.62	8MGT-1000	125	0.96	8MGT-2000	250	1.22	8MGT-3200	400	1.40
8MGT-456	57	0.66	8MGT-1040	130	0.97	8MGT-2200	275	1.26	8MGT-3280	410	1.41
8MGT-480	60	0.68	8MGT-1120	140	1.00	8MGT-2940	280	1.26	8MGT-3600	450	1.45
8MGT-544	68	0.72	8MGT-1200	150	1.03	8MGT-2400	300	1.29	8MGT-4000	500	1.49
8MGT-608	76	0.77	8MGT-1224	153	1.03	8MGT-2520	315	1.31	8MGT-4400	550	1.52
8MGT-640	80	0.79	8MGT-1280	160	1.05	8MGT-2600	325	1.32	8MGT-4480	560	1.53
8MGT-720	90	0.83	8MGT-1440	180	1.10						



Horsepower Rating for 62mm Wide 8mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)															
	22	25	28	30	32	34	36	38	40	42	45	48	50	53	56	
10	2.206	2.506	2.807	3.008	3.208	3.409	3.609	3.810	4.010	4.211	4.511	4.812	5.013	5.314	5.614	
20																
35																
44																
58																
70																
88	3.70	4.48	5.25	5.76	6.27	6.79	7.29	7.80	8.30	8.81	9.56	10.3	10.8	11.6	12.3	
100	4.11	4.98	5.84	6.42	6.99	7.56	8.13	8.70	9.26	9.83	10.7	11.5	12.1	12.9	13.7	
117	4.68	5.67	6.67	7.33	7.99	8.65	9.30	9.95	10.6	11.2	12.2	13.2	13.8	14.8	15.7	
175	6.55	7.99	9.42	10.4	11.3	12.3	13.2	14.1	15.1	16.0	17.4	18.8	19.7	21.1	22.4	
200	7.34	8.96	10.6	11.6	12.7	13.8	14.8	15.9	16.9	18.0	19.5	21.1	22.1	23.7	25.2	
233	8.36	10.2	12.1	13.3	14.5	15.7	17.0	18.2	19.4	20.6	22.4	24.2	25.4	27.1	28.9	
300	10.4	12.7	15.1	16.6	18.1	19.7	21.2	22.7	24.3	25.8	28.0	30.3	31.8	34.0	36.3	
350	11.9	14.6	17.2	19.0	20.8	22.6	24.3	26.1	27.8	29.6	32.2	34.8	36.5	39.1	41.7	
400	13.3	16.4	19.4	21.4	23.4	25.4	27.4	29.4	31.4	33.3	36.3	39.2	41.2	44.1	47.0	
500	16.1	19.9	23.6	26.1	28.5	31.0	33.4	35.9	38.3	40.7	44.3	47.9	50.3	53.9	57.5	
575	18.2	22.5	26.7	29.5	32.3	35.1	37.9	40.7	43.4	46.2	50.3	54.4	57.1	61.2	65.2	
600	18.9	23.3	27.8	30.7	33.6	36.5	39.4	42.3	45.1	48.0	52.3	56.5	59.4	63.6	67.8	
690	21.3	26.4	31.4	34.7	38.0	41.4	44.6	47.9	51.2	54.4	59.3	64.1	67.3	72.2	76.9	
700	21.6	26.7	31.8	35.2	38.5	41.9	45.2	48.5	51.8	55.1	60.1	65.0	68.2	73.1	77.9	
800	24.3	30.1	35.8	39.6	43.4	47.2	51.0	54.7	58.5	62.2	67.8	73.3	77.0	82.5	88.0	
870	26.1	32.4	38.6	42.7	46.8	50.9	55.0	59.0	63.0	67.1	73.1	79.1	83.1	89.0	94.9	
900	26.9	33.3	39.8	44.0	48.2	52.5	56.7	60.8	65.0	69.2	75.4	81.5	85.7	91.8	97.9	
1000	29.5	36.6	43.7	48.3	53.0	57.7	62.3	66.9	71.5	76.1	82.9	89.7	94.2	101.0	107.7	
1160	33.5	41.7	49.8	55.2	60.5	65.9	71.1	76.4	81.7	87.0	94.8	102.6	107.8	115.5	123.2	
1750	47.9	59.8	71.7	79.5	87.3	95.1	102.8	110.6	118.2	125.9	137.3	148.6	156.2	167.4	178.6	
2000	53.7	67.2	80.6	89.5	98.3	107.2	115.9	124.6	133.2	141.9	154.7	167.6	176.1	188.7	201.3	
3000	76.1	95.7	115.2	128.0	140.8	153.5	166.1	178.7	191.1	203.6	222.0	240.3	252.5	270.6	288.5	
3450	85.8	108.0	130.1	144.7	159.1	173.6	187.8	202.0	216.1	230.2	251.0	271.6	285.3	305.7	325.8	
4000	97.2	122.7	147.9	164.5	181.0	197.4	213.7	229.8	245.8	261.8	285.3	308.7	324.2	347.1	369.7	
4500	107.4	135.6	163.6	182.1	200.4	218.6	236.5	254.4	272.1	289.6	315.6	341.3	358.3	383.4		
5000	117.3	148.3	179.0	199.3	219.3	239.2	258.8	278.3	297.5	316.7	344.9	372.8	391.1			
5500	126.9	160.6	194.0	216.0	237.7	259.2	280.4	301.5	322.3	342.9	373.2					

Drives in this area should be designed using Design Flex® Pro.
Please consult www.gates.com/drivedesign for details.

Use this sprocket only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section for details.



Horsepower Rating for 20mm Wide 14mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)																
	28	29	30	31	32	33	34	35	36	37	38	39	40	43	45	48	50
10	4,912	5,088	5,263	5,439	5,614	5,790	5,965	6,141	6,316	6,492	6,667	6,842	7,018	7,544	7,895	8,421	8,772
20																	
35																	
44																	
58																	
70																	
88	5.72	5.96	6.20	6.44	6.68	6.92	7.15	7.39	7.63	7.87	8.10	8.34	8.57	9.27	9.74	10.4	10.9
100	6.35	6.62	6.88	7.15	7.42	7.68	7.95	8.22	8.48	8.74	9.01	9.27	9.53	10.3	10.8	11.6	12.1
117	7.23	7.54	7.84	8.15	8.45	8.76	9.06	9.36	9.66	9.97	10.3	10.6	10.9	11.8	12.4	13.2	13.8
175	10.1	10.6	11.0	11.4	11.9	12.3	12.7	13.1	13.6	14.0	14.4	14.8	15.3	16.5	17.4	18.6	19.5
200	11.3	11.8	12.3	12.8	13.3	13.8	14.2	14.7	15.2	15.7	16.2	16.6	17.1	18.5	19.5	20.9	21.8
233	12.9	13.5	14.0	14.6	15.1	15.7	16.2	16.8	17.3	17.9	18.4	19.0	19.5	21.1	22.2	23.8	24.9
300	16.0	16.7	17.4	18.1	18.8	19.5	20.1	20.8	21.5	22.2	22.9	23.6	24.2	26.3	27.6	29.6	30.9
350	18.2	19.0	19.8	20.6	21.4	22.2	23.0	23.8	24.6	25.4	26.1	26.9	27.7	30.0	31.5	33.8	35.3
400	20.5	21.4	22.2	23.1	24.0	24.9	25.8	26.7	27.6	28.4	29.3	30.2	31.1	33.7	35.4	38.0	39.7
500	24.8	25.9	26.9	28.0	29.1	30.2	31.3	32.4	33.4	34.5	35.6	36.6	37.7	40.8	42.9	46.1	48.1
575	27.9	29.2	30.4	31.6	32.8	34.1	35.3	36.5	37.7	38.9	40.1	41.3	42.5	46.1	48.5	52.0	54.3
600	29.0	30.2	31.5	32.8	34.1	35.3	36.6	37.9	39.1	40.4	41.6	42.9	44.1	47.8	50.3	53.9	56.4
690	32.6	34.1	35.5	37.0	38.4	39.9	41.3	42.7	44.1	45.6	47.0	48.4	49.8	54.0	56.7	60.9	63.6
700	33.0	34.5	36.0	37.4	38.9	40.4	41.8	43.3	44.7	46.1	47.6	49.0	50.4	54.6	57.5	61.7	64.4
800	37.0	38.7	40.4	42.0	43.6	45.3	46.9	48.5	50.1	51.8	53.4	55.0	56.6	61.3	64.5	69.2	72.3
870	39.8	41.6	43.4	45.1	46.9	48.7	50.4	52.2	53.9	55.6	57.4	59.1	60.8	65.9	69.3	74.4	77.8
900	41.0	42.8	44.6	46.5	48.3	50.1	51.9	53.7	55.5	57.3	59.1	60.8	62.6	67.9	71.4	76.6	80.1
1000	44.8	46.9	48.9	50.9	52.9	54.8	56.8	58.8	60.8	62.7	64.7	66.6	68.6	74.4	78.2	83.9	87.7
1160	50.9	53.2	55.5	57.8	60.0	62.3	64.5	66.8	69.0	71.3	73.5	75.7	77.9	84.5	88.8	95.3	99.6
1750	72.1	75.4	78.6	81.9	85.1	88.4	91.6	94.8	97.9	101.1	104.3	107.4	110.5	119.8	126.0	135.1	141.1
2000	80.6	84.3	88.0	91.6	95.2	98.8	102.4	106.0	109.6	113.1	116.6	120.1	123.6	134.0	140.8	150.9	157.6
3000	112.6	117.8	122.9	127.9	133.0	138.0	142.9	147.9	152.8	157.6	162.5	167.2	172.0	186.1	195.3		
3450	126.0	131.7	137.4	143.0	148.6	154.2	159.7	165.2	170.6	175.9	181.2	186.5	191.7				
4000	141.4	147.9	154.2	160.5	166.7	172.8	178.9	185.0	190.9								

Drives in this area should be designed using Design Flex® Pro.
Please consult www.gates.com/drivedesign for details.

Poly Chain® GT® Carbon® Belt Length Correction Factor Table					
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
14MGT-994	71	0.68	14MGT-2450	175	1.02
14MGT-1120	80	0.73	14MGT-2520	180	1.03
14MGT-1190	85	0.75	14MGT-2590	185	1.04
14MGT-1260	90	0.77	14MGT-2660	190	1.05
14MGT-1400	100	0.81	14MGT-2800	200	1.07
14MGT-1568	112	0.85	14MGT-3136	224	1.12
14MGT-1810	115	0.86	14MGT-3304	236	1.14
14MGT-1750	125	0.89	14MGT-3360	240	1.14
14MGT-1890	135	0.92	14MGT-3500	250	1.16
14MGT-1960	140	0.94	14MGT-3850	275	1.19
14MGT-2100	150	0.96	14MGT-3920	280	1.20
14MGT-2240	160	0.99	14MGT-4326	309	1.24
14MGT-2310	165	1.00	14MGT-4410	315	1.25
14MGT-2380	170	1.01			



Horsepower Rating for 20mm Wide 14mm Pitch Poly Chain® GT® Carbon® Belts

Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)										Additional Horsepower per belt for Speed Ratio of Speed-Down Drives										RPM OF FASTER SHAFT
53 9.299	56 9.825	60 10.527	63 11.053	67 11.755	71 12.457	75 13.158	80 14.036											10		
Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.										Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.										20
																				35
																				44
																				58
																				70
																				88
																				100
																				117
																				175
																				200
																				233
																				300
																				350
																				400
																				500
																				575
																				600
																				690
																				700
																				800
																				870
																				900
																				1000
																				1160
																				1750
																				2000
																				3000
																				3450
																				4000

Poly Chain® GT® Carbon® Belt Length Correction Factor Table					
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
14MGT-994	71	0.68	14MGT-2450	175	1.02
14MGT-1120	80	0.73	14MGT-2520	180	1.03
14MGT-1190	85	0.75	14MGT-2590	185	1.04
14MGT-1260	90	0.77	14MGT-2660	190	1.05
14MGT-1400	100	0.81	14MGT-2800	200	1.07
14MGT-1568	112	0.85	14MGT-3136	224	1.12
14MGT-1610	115	0.86	14MGT-3304	236	1.14
14MGT-1750	125	0.89	14MGT-3360	240	1.14
14MGT-1890	135	0.92	14MGT-3500	250	1.16
14MGT-1960	140	0.94	14MGT-3850	275	1.19
14MGT-2100	150	0.96	14MGT-3920	280	1.20
14MGT-2240	165	0.99	14MGT-4326	309	1.24
14MGT-2310	165	1.00	14MGT-4410	315	1.25
14MGT-2380	170	1.01			



Horsepower Rating for 37mm Wide 14mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)																
	28	29	30	31	32	33	34	35	36	37	38	39	40	43	45	48	50
10	4.912	5.088	5.263	5.439	5.614	5.790	5.965	6.141	6.316	6.492	6.667	6.842	7.018	7.544	7.895	8.421	8.772
20	Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.																
35	Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.																
44	Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.																
58	Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.																
70	10.6	11.0	11.5	11.9	12.4	12.8	13.2	13.7	14.1	14.6	15.0	15.4	15.9	17.2	18.0	19.3	20.2
88	10.6	11.0	11.5	11.9	12.4	12.8	13.2	13.7	14.1	14.6	15.0	15.4	15.9	17.2	18.0	19.3	20.2
100	11.7	12.2	12.7	13.2	13.7	14.2	14.7	15.2	15.7	16.2	16.7	17.1	17.6	19.1	20.0	21.5	22.4
117	13.4	13.9	14.5	15.1	15.6	16.2	16.8	17.3	17.9	18.4	19.0	19.5	20.1	21.8	22.9	24.5	25.6
175	18.7	19.5	20.3	21.1	21.9	22.7	23.5	24.3	25.1	25.9	26.7	27.5	28.2	30.6	32.1	34.5	36.0
200	21.0	21.9	22.8	23.7	24.6	25.5	26.3	27.2	28.1	29.0	29.9	30.8	31.7	34.3	36.0	38.6	40.3
233	23.9	24.9	25.9	27.0	28.0	29.0	30.0	31.0	32.0	33.1	34.1	35.1	36.1	39.1	41.1	44.0	46.0
300	29.6	30.9	32.2	33.5	34.7	36.0	37.3	38.5	39.8	41.1	42.3	43.6	44.8	48.6	51.0	54.7	57.2
350	33.8	35.2	36.7	38.2	39.6	41.1	42.6	44.0	45.4	46.9	48.3	49.8	51.2	55.5	58.3	62.5	65.4
400	37.8	39.5	41.2	42.8	44.5	46.1	47.7	49.4	51.0	52.6	54.2	55.8	57.5	62.3	65.5	70.2	73.4
500	45.8	47.8	49.9	51.9	53.9	55.9	57.9	59.9	61.8	63.8	65.8	67.7	69.7	75.5	79.4	85.2	89.0
575	51.6	53.9	56.2	58.5	60.8	63.0	65.3	67.5	69.8	72.0	74.2	76.4	78.7	85.3	89.6	96.2	100.5
600	53.6	55.9	58.3	60.7	63.0	65.4	67.7	70.0	72.4	74.7	77.0	79.3	81.6	88.5	93.0	99.8	104.3
690	60.4	63.1	65.8	68.4	71.1	73.7	76.4	79.0	81.6	84.3	86.9	89.5	92.1	99.8	105.0	112.6	117.7
700	61.1	63.9	66.6	69.3	72.0	74.7	77.3	80.0	82.7	85.3	88.0	90.6	93.2	101.1	106.3	114.1	119.2
800	68.5	71.6	74.7	77.7	80.7	83.8	86.8	89.8	92.8	95.8	98.7	101.7	104.7	113.5	119.3	128.0	133.8
870	73.6	76.9	80.2	83.5	86.8	90.0	93.3	96.5	99.7	102.9	106.1	109.3	112.5	122.0	128.3	137.6	143.9
900	75.8	79.2	82.6	86.0	89.3	92.7	96.0	99.4	102.7	106.0	109.3	112.6	115.8	125.6	132.1	141.7	148.1
1000	82.9	86.7	90.4	94.1	97.8	101.5	105.1	108.8	112.4	116.0	119.7	123.2	126.8	137.6	144.7	155.2	162.2
1160	94.1	98.4	102.6	106.8	111.0	115.2	119.4	123.5	127.7	131.8	135.9	140.0	144.1	156.3	164.3	176.3	184.2
1750	133.4	139.4	145.5	151.5	157.5	163.5	169.4	175.3	181.2	187.0	192.9	198.7	204.5	221.7	233.0	249.9	261.0
2000	149.2	156.0	162.7	169.5	176.2	182.9	189.5	196.1	202.7	209.2	215.7	222.2	228.7	247.9	260.5	279.2	291.6
3000	208.3	217.9	227.3	236.7	246.0	255.3	264.4	273.6	282.6	291.6	300.5	309.4	318.2	344.2	361.2		
3450	233.0	243.7	254.2	264.6	275.0	285.3	295.4	305.5	315.5	325.5	335.3	345.0	354.7				
4000	261.7	273.5	285.2	296.9	308.3	319.8	331.0	342.2	353.2								

Poly Chain® GT® Carbon® Belt Length Correction Factor Table					
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
14MGT-994	71	0.68	14MGT-2450	175	1.02
14MGT-1120	80	0.73	14MGT-2520	180	1.03
14MGT-1190	85	0.75	14MGT-2590	185	1.04
14MGT-1260	90	0.77	14MGT-2660	190	1.05
14MGT-1400	100	0.81	14MGT-2800	200	1.07
14MGT-1568	112	0.85	14MGT-3136	224	1.12
14MGT-1810	115	0.86	14MGT-3304	236	1.14
14MGT-1750	125	0.89	14MGT-3360	240	1.14
14MGT-1890	135	0.92	14MGT-3500	250	1.16
14MGT-1960	140	0.94	14MGT-3850	275	1.19
14MGT-2100	150	0.96	14MGT-3920	280	1.20
14MGT-2240	160	0.99	14MGT-4326	309	1.24
14MGT-2310	165	1.00	14MGT-4410	315	1.25
14MGT-2380	170	1.01			





Horsepower Rating for 37mm Wide 14mm Pitch Poly Chain® GT® Carbon® Belts

Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)										Additional Horsepower per belt for Speed Ratio of Speed-Down Drives										RPM OF FASTER SHAFT
53 9.299	56 9.825	60 10.527	63 11.053	67 11.755	71 12.457	75 13.158	80 14.036											10		
21.4	22.7	24.4	25.7	27.3	29.0	30.7	32.7	0.00	0.08	0.17	0.25	0.33	0.41	0.50	0.58	0.66	0.74	20		
23.9	25.3	27.2	28.6	30.4	32.3	34.1	36.4	0.00	0.09	0.19	0.28	0.38	0.47	0.56	0.66	0.75	0.84	35		
27.2	28.8	31.0	32.6	34.7	36.8	38.9	41.6	0.00	0.11	0.22	0.33	0.44	0.55	0.66	0.77	0.88	0.99	44		
38.3	40.6	43.6	45.9	48.9	51.8	54.8	58.5	0.00	0.16	0.33	0.49	0.66	0.82	0.99	1.15	1.31	1.48	58		
42.9	45.5	48.9	51.4	54.8	58.1	61.5	65.6	0.00	0.19	0.38	0.56	0.75	0.94	1.13	1.31	1.50	1.69	70		
48.9	51.9	55.7	58.6	62.5	66.3	70.1	74.8	0.00	0.22	0.44	0.66	0.88	1.09	1.31	1.53	1.75	1.97	200		
60.9	64.5	69.3	72.9	77.7	82.5	87.2	93.1	0.00	0.28	0.56	0.84	1.13	1.41	1.69	1.97	2.25	2.53	300		
69.6	73.7	79.2	83.4	88.8	94.3	99.7	106.4	0.00	0.33	0.66	0.99	1.31	1.64	1.97	2.30	2.63	2.96	350		
78.1	82.8	89.0	93.6	99.7	105.8	111.9	119.4	0.00	0.38	0.75	1.13	1.50	1.88	2.25	2.63	3.00	3.38	400		
94.8	100.5	108.0	113.6	121.0	128.4	135.8	144.9	0.00	0.47	0.94	1.41	1.88	2.35	2.82	3.29	3.75	4.22	500		
107.0	113.4	121.9	128.3	136.7	145.0	153.3	163.6	0.00	0.54	1.08	1.62	2.16	2.70	3.24	3.78	4.32	4.86	575		
111.0	117.7	126.5	133.1	141.8	150.4	159.0	169.7	0.00	0.56	1.13	1.69	2.25	2.82	3.38	3.94	4.51	5.07	600		
125.3	132.8	142.8	150.2	160.0	169.8	179.4	191.5	0.00	0.65	1.30	1.94	2.59	3.24	3.89	4.53	5.18	5.83	690		
126.9	134.5	144.6	152.1	162.0	171.9	181.7	193.8	0.00	0.66	1.31	1.97	2.63	3.29	3.94	4.60	5.26	5.91	700		
142.4	151.0	162.3	170.7	181.8	192.9	203.8	217.4	0.00	0.75	1.50	2.25	3.00	3.76	4.51	5.26	6.01	6.76	800		
153.1	162.3	174.5	183.5	195.5	207.3	219.1	233.6	0.00	0.82	1.63	2.45	3.27	4.08	4.90	5.72	6.53	7.35	870		
157.7	167.1	179.6	188.9	201.2	213.4	225.5	240.5	0.00	0.85	1.69	2.53	3.38	4.23	5.07	5.91	6.76	7.60	900		
172.6	183.0	196.7	206.8	220.3	233.6	246.8	263.1	0.00	0.94	1.88	2.82	3.76	4.69	5.63	6.57	7.51	8.45	1000		
196.1	207.8	223.3	234.8	250.0	265.0	279.8	298.2	0.00	1.09	2.18	3.27	4.36	5.45	6.53	7.62	8.71	9.80	1160		
277.6	293.9	315.4	331.3	352.1	372.6	392.8	417.5	0.00	1.64	3.29	4.93	6.57	8.22	9.85	11.5	13.1	14.8	1750		
309.9	328.0	351.7	369.1	392.0	414.4			0.00	1.88	3.76	5.63	7.51	9.39	11.3	13.1	15.0	16.9	2000		
								0.00	2.82	5.63	8.45	11.3	14.1	16.9	19.7	22.5	25.3	3000		
								0.00	3.24	6.48	9.71	13.0	16.2	19.4	22.7	25.9	29.1	3450		
								0.00	3.76	7.51	11.3	15.0	18.8	22.5	26.3	30.0	33.8	4000		

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Poly Chain® GT® Carbon® Belt Length Correction Factor Table					
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
14MGT-994	71	0.68	14MGT-2450	175	1.02
14MGT-1120	80	0.73	14MGT-2520	180	1.03
14MGT-1190	85	0.75	14MGT-2590	185	1.04
14MGT-1260	90	0.77	14MGT-2660	190	1.05
14MGT-1400	100	0.81	14MGT-2800	200	1.07
14MGT-1568	112	0.85	14MGT-3136	224	1.12
14MGT-1610	115	0.86	14MGT-3304	236	1.14
14MGT-1610	125	0.89	14MGT-3360	240	1.14
14MGT-1750	135	0.92	14MGT-3500	250	1.16
14MGT-1960	140	0.94	14MGT-3850	275	1.19
14MGT-2100	150	0.96	14MGT-3920	280	1.20
14MGT-2240	165	0.99	14MGT-4326	309	1.24
14MGT-2310	165	1.00	14MGT-4410	315	1.25
14MGT-2380	170	1.01			

Horsepower Rating for 68mm Wide 14mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)																			
	28	29	30	31	32	33	34	35	36	37	38	39	40	43	45	48	50			
10	4.912	5.088	5.263	5.439	5.614	5.790	5.965	6.141	6.316	6.492	6.667	6.842	7.018	7.544	7.895	8.421	8.772			
20																				
35																				
44																				
58																				
70																				
88	19.4	20.3	21.1	21.9	22.7	23.5	24.3	25.1	25.9	26.7	27.5	28.3	29.1	31.5	33.1	35.5	37.1			
100	21.6	22.5	23.4	24.3	25.2	26.1	27.0	27.9	28.8	29.7	30.6	31.5	32.4	35.1	36.8	39.5	41.2			
117	24.6	25.6	26.7	27.7	28.7	29.8	30.8	31.8	32.9	33.9	34.9	35.9	36.9	40.0	42.0	45.0	47.0			
175	34.4	35.9	37.4	38.8	40.3	41.8	43.2	44.7	46.1	47.6	49.0	50.5	51.9	56.2	59.1	63.3	66.1			
200	38.5	40.2	41.8	43.5	45.1	46.8	48.4	50.1	51.7	53.3	54.9	56.6	58.2	63.0	66.2	71.0	74.1			
233	43.9	45.8	47.6	49.5	51.4	53.3	55.2	57.0	58.9	60.8	62.6	64.4	66.3	71.8	75.5	80.9	84.5			
300	54.4	56.8	59.1	61.5	63.8	66.2	68.5	70.8	73.2	75.5	77.8	80.1	82.4	89.3	93.8	100.6	105.1			
350	62.0	64.8	67.5	70.2	72.8	75.5	78.2	80.9	83.5	86.2	88.8	91.5	94.1	102.0	107.2	115.0	120.1			
400	69.5	72.6	75.6	78.7	81.7	84.7	87.7	90.7	93.7	96.7	99.7	102.6	105.6	114.4	120.3	129.0	134.8			
500	84.2	87.9	91.6	95.3	99.0	102.7	106.3	110.0	113.6	117.3	120.9	124.5	128.1	138.8	146.0	156.6	163.6			
575	94.9	99.1	103.3	107.5	111.7	115.8	120.0	124.1	128.2	132.3	136.4	140.5	144.6	156.7	164.8	176.8	184.7			
600	98.4	102.8	107.2	111.5	115.8	120.2	124.4	128.7	133.0	137.3	141.5	145.7	150.0	162.6	171.0	183.4	191.7			
690	111.0	115.9	120.8	125.8	130.6	135.5	140.4	145.2	150.1	154.9	159.7	164.5	169.3	183.5	192.9	207.0	216.4			
700	112.4	117.4	122.3	127.3	132.3	137.2	142.1	147.1	151.9	156.8	161.7	166.5	171.4	185.8	195.4	209.6	219.1			
800	126.0	131.6	137.2	142.8	148.4	153.9	159.5	165.0	170.5	176.0	181.4	186.9	192.3	208.5	219.3	235.3	245.9			
870	135.3	141.4	147.4	153.5	159.5	165.5	171.4	177.4	183.3	189.2	195.1	200.9	206.8	224.2	235.8	253.0	264.4			
900	139.3	145.6	151.8	158.0	164.2	170.3	176.5	182.6	188.7	194.8	200.8	206.9	212.9	230.9	242.8	260.5	272.2			
1000	152.4	159.3	166.1	172.9	179.7	186.5	193.2	199.9	206.6	213.3	219.9	226.5	233.1	252.8	265.8	285.2	298.1			
1160	173.0	180.8	188.6	196.4	204.1	211.8	219.4	227.1	234.7	242.3	249.8	257.3	264.8	287.2	302.0	324.0	338.6			
1750	245.1	256.3	267.4	278.4	289.4	300.4	311.3	322.2	333.0	343.8	354.5	365.1	375.8	407.4	428.3	459.3	479.7			
2000	274.1	286.7	299.1	311.5	323.8	336.1	348.2	360.4	372.5	384.5	396.5	408.4	420.3	455.5	478.8	513.2	535.9			
3000	382.9	400.4	417.7	435.0	452.1	469.2	486.0	502.8	519.4	536.0	552.4	568.6	584.8	632.6	663.9					
3450	428.3	447.8	467.1	486.4	505.3	524.3	542.9	561.6	579.9	598.2	616.2	634.1	651.9							
4000	480.9	502.7	524.2	545.6	566.7	587.7	608.3	628.9	649.1											

Drives in this area should be designed using Design Flex® Pro.
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Poly Chain® GT® Carbon® Belt Length Correction Factor Table					
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
14MGT-994	71	0.68	14MGT-2450	175	1.02
14MGT-1120	80	0.73	14MGT-2520	180	1.03
14MGT-1190	85	0.75	14MGT-2590	185	1.04
14MGT-1260	90	0.77	14MGT-2660	190	1.05
14MGT-1400	100	0.81	14MGT-2800	200	1.07
14MGT-1568	112	0.85	14MGT-3136	224	1.12
14MGT-1810	115	0.86	14MGT-3304	236	1.14
14MGT-1750	125	0.89	14MGT-3360	240	1.14
14MGT-1890	135	0.92	14MGT-3500	250	1.16
14MGT-1960	140	0.94	14MGT-3850	275	1.19
14MGT-2100	150	0.96	14MGT-3920	280	1.20
14MGT-2240	160	0.99	14MGT-4326	309	1.24
14MGT-2310	165	1.00	14MGT-4410	315	1.25
14MGT-2380	170	1.01			



Horsepower Rating for 90mm Wide 14mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)																			
	28	29	30	31	32	33	34	35	36	37	38	39	40	43	45	48	50			
10	4.912	5.088	5.263	5.439	5.614	5.790	5.965	6.141	6.316	6.492	6.667	6.842	7.018	7.544	7.895	8.421	8.772			
20																				
35																				
44																				
58																				
70																				
88	25.7	26.8	27.9	29.0	30.0	31.1	32.2	33.3	34.3	35.4	36.5	37.5	38.6	41.7	43.8	47.0	49.0			
100	28.6	29.8	31.0	32.2	33.4	34.6	35.8	37.0	38.2	39.3	40.5	41.7	42.9	46.4	48.7	52.2	54.6			
117	32.5	33.9	35.3	36.7	38.0	39.4	40.8	42.1	43.5	44.8	46.2	47.5	48.9	52.9	55.6	59.6	62.2			
175	45.6	47.5	49.5	51.4	53.3	55.3	57.2	59.1	61.1	63.0	64.9	66.8	68.7	74.4	78.2	83.8	87.5			
200	51.0	53.2	55.4	57.6	59.7	61.9	64.1	66.3	68.4	70.6	72.7	74.9	77.0	83.4	87.6	93.9	98.1			
233	58.0	60.6	63.1	65.6	68.0	70.5	73.0	75.5	77.9	80.4	82.9	85.3	87.8	95.0	99.9	107.1	111.9			
300	72.0	75.1	78.2	81.4	84.5	87.6	90.7	93.8	96.8	99.9	102.9	106.0	109.0	118.1	124.2	133.2	139.1			
350	82.1	85.7	89.3	92.9	96.4	100.0	103.5	107.0	110.6	114.1	117.6	121.1	124.6	135.0	141.9	152.1	159.0			
400	92.0	96.1	100.1	104.1	108.1	112.1	116.1	120.1	124.0	128.0	131.9	135.8	139.8	151.5	159.2	170.8	178.5			
500	111.4	116.4	121.3	126.2	131.0	135.9	140.7	145.6	150.4	155.2	160.0	164.8	169.5	183.8	193.2	207.3	216.6			
575	125.6	131.2	136.7	142.3	147.8	153.3	158.8	164.2	169.7	175.1	180.5	185.9	191.3	207.4	218.1	234.0	244.5			
600	130.3	136.1	141.8	147.6	153.3	159.0	164.7	170.4	176.0	181.7	187.3	192.9	198.5	215.2	226.3	242.7	253.7			
690	146.9	153.4	159.9	166.5	172.9	179.4	185.8	192.2	198.6	205.0	211.3	217.7	224.0	242.9	255.4	274.0	286.4			
700	148.7	155.3	161.9	168.5	175.1	181.6	188.1	194.6	201.1	207.6	214.0	220.4	226.8	245.9	258.6	277.4	289.9			
800	166.7	174.2	181.6	189.0	196.4	203.7	211.1	218.4	225.6	232.9	240.1	247.3	254.6	276.0	290.2	311.4	325.5			
870	179.1	187.2	195.1	203.1	211.1	219.0	226.9	234.7	242.6	250.4	258.2	265.9	273.7	296.8	312.1	334.8	349.9			
900	184.4	192.7	200.9	209.1	217.3	225.5	233.6	241.7	249.7	257.8	265.8	273.8	281.8	305.6	321.3	344.8	360.3			
1000	201.8	210.9	219.9	228.9	237.8	246.8	255.7	264.6	273.4	282.3	291.1	299.8	308.6	334.6	351.9	377.5	394.6			
1160	229.0	239.4	249.6	259.9	270.1	280.3	290.4	300.5	310.6	320.6	330.6	340.6	350.5	399.7	428.9	448.2	468.2			
1750	324.4	339.2	353.9	368.5	383.1	397.6	412.0	426.4	440.7	455.0	469.1	483.2	497.3	539.2	566.8	607.9	634.9			
2000	362.8	379.4	395.8	412.3	428.5	444.8	460.9	477.0	493.0	509.0	524.8	540.5	556.3	602.9	633.7	679.2	709.3			
3000	506.8	530.0	552.9	575.8	598.4	620.9	643.2	665.5	687.5	709.4	731.1	752.6	774.0	837.3	878.6					
3450	566.8	592.7	618.3	643.7	668.9	693.9	718.6	743.2	767.5	791.8	815.6	839.3	862.9							
4000	636.5	665.4	693.8	722.2	750.1	777.8	805.1	832.3	859.1											

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Poly Chain® GT® Carbon® Belt Length Correction Factor Table					
Pitch/Length Designation	Number of Teeth	Correction Factor	Pitch/Length Designation	Number of Teeth	Correction Factor
14MGT-994	71	0.68	14MGT-2450	175	1.02
14MGT-1120	80	0.73	14MGT-2520	180	1.03
14MGT-1190	85	0.75	14MGT-2590	185	1.04
14MGT-1260	90	0.77	14MGT-2660	190	1.05
14MGT-1400	100	0.81	14MGT-2800	200	1.07
14MGT-1568	112	0.85	14MGT-3136	224	1.12
14MGT-1810	115	0.86	14MGT-3304	236	1.14
14MGT-1750	125	0.89	14MGT-3360	240	1.14
14MGT-1890	135	0.92	14MGT-3500	250	1.16
14MGT-1960	140	0.94	14MGT-3850	275	1.19
14MGT-2100	150	0.96	14MGT-3920	280	1.20
14MGT-2240	160	0.99	14MGT-4326	309	1.24
14MGT-2310	165	1.00	14MGT-4410	315	1.25
14MGT-2380	170	1.01			



Horsepower Rating for 125mm Wide 14mm Pitch Poly Chain® GT® Carbon® Belts

RPM OF FASTER SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)																			
	28	29	30	31	32	33	34	35	36	37	38	39	40	43	45	48	50			
10	4.912	5.088	5.263	5.439	5.614	5.790	5.965	6.141	6.316	6.492	6.667	6.842	7.018	7.544	7.895	8.421	8.772			
20																				
35																				
44																				
58																				
70																				
88	35.7	37.2	38.7	40.2	41.7	43.2	44.7	46.2	47.7	49.2	50.6	52.1	53.6	58.0	60.9	65.2	68.1			
100	39.7	41.4	43.0	44.7	46.4	48.0	49.7	51.3	53.0	54.6	56.3	57.9	59.6	64.5	67.7	72.5	75.8			
117	45.2	47.1	49.0	50.9	52.8	54.7	56.6	58.5	60.4	62.3	64.2	66.0	67.9	73.5	77.2	82.7	86.4			
175	63.3	66.0	68.7	71.4	74.1	76.8	79.5	82.1	84.8	87.5	90.1	92.8	95.4	103.3	108.6	116.4	121.6			
200	70.8	73.9	76.9	80.0	83.0	86.0	89.0	92.0	95.0	98.0	101.0	104.0	106.9	115.8	121.7	130.5	136.3			
233	80.6	84.1	87.6	91.1	94.5	98.0	101.4	104.8	108.3	111.7	115.1	118.5	121.9	132.0	138.7	148.7	155.4			
300	100.0	104.3	108.7	113.0	117.3	121.6	125.9	130.2	134.5	138.7	143.0	147.2	151.5	164.1	172.5	184.9	193.2			
350	114.0	119.0	124.0	129.0	133.9	138.9	143.8	148.7	153.5	158.4	163.3	168.1	173.0	187.4	197.0	211.3	220.8			
400	127.8	133.5	139.1	144.6	150.2	155.8	161.3	166.8	172.3	177.8	183.2	188.7	194.1	210.4	221.2	237.2	247.9			
500	154.8	161.6	168.4	175.2	182.0	188.8	195.5	202.2	208.9	215.6	222.2	228.8	235.5	255.2	268.3	287.8	300.8			
575	174.5	182.2	189.9	197.6	205.3	212.9	220.5	228.1	235.7	243.2	250.7	258.2	265.7	288.1	302.9	324.9	339.6			
600	181.0	189.0	197.0	205.0	212.9	220.8	228.8	236.7	244.5	252.3	260.1	267.9	275.7	298.9	314.2	337.1	352.3			
690	204.0	213.1	222.1	231.2	240.2	249.1	258.1	267.0	275.8	284.7	293.5	302.3	311.1	337.3	354.7	380.6	397.7			
700	206.5	215.8	224.9	234.1	243.1	252.2	261.3	270.3	279.3	288.3	297.2	306.1	315.0	341.5	359.1	385.3	402.7			
800	231.6	241.9	252.2	262.5	272.7	283.0	293.1	303.3	313.4	323.5	333.5	343.5	353.6	383.4	403.1	432.5	452.0			
870	248.8	260.0	271.0	282.1	293.1	304.2	315.1	326.0	336.9	347.8	358.6	369.3	380.1	412.2	433.4	465.0	486.0			
900	256.1	267.6	279.0	290.5	301.8	313.1	324.4	335.7	346.9	358.1	369.2	380.3	391.4	424.4	446.3	478.8	500.4			
1000	280.2	292.9	305.4	317.9	330.3	342.8	355.1	367.5	379.8	392.1	404.2	416.4	428.6	464.7	488.7	524.4	548.0			
1160	318.0	332.4	346.7	361.0	375.1	389.3	403.3	417.4	431.3	445.3	459.2	473.0	486.8	527.9	555.2	595.6	622.5			
1750	450.5	471.1	491.5	511.8	532.0	552.2	572.2	592.2	612.1	631.9	651.6	671.1	690.8	748.9	787.3	844.2	881.9			
2000	503.9	527.0	549.8	572.6	595.2	617.8	640.2	662.5	684.7	706.9	728.8	750.7	772.6	837.3	880.1	943.4	985.1			
3000	703.8	736.1	767.9	799.7	831.1	862.4	893.4	924.3	954.8	985.3	1015	1045	1075	1163	1220					
3450	787.3	823.2	858.7	894.1	928.9	963.7	998.1	1032	1066	1100	1133	1166	1198							
4000	884.0	924.1	963.7	1003	1042	1080	1118	1156	1193											

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14MGT-1260	90	0.77	14MGT-2660	190	1.05
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14MGT-1810	115	0.86	14MGT-3304	236	1.14
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14MGT-1960	140	0.94	14MGT-3850	275	1.19
14MGT-2100	150	0.96	14MGT-3920	280	1.20
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14MGT-2310	165	1.00	14MGT-4410	315	1.25
14MGT-2380	170	1.01			





Horsepower Rating for 125mm Wide 14mm Pitch Poly Chain® GT® Carbon® Belts

Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)										Additional Horsepower per belt for Speed Ratio of Speed-Down Drives										RPM OF FASTER SHAFT		
53 9.299	56 9.825	60 10.527	63 11.053	67 11.755	71 12.457	75 13.158	80 14.036	1.00 to 1.03	1.04 to 1.10	1.11 to 1.19	1.20 to 1.30	1.31 to 1.45	1.46 to 1.67	1.68 to 2.02	2.03 to 2.69	2.70 to 4.64	4.65 to Over					
Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.											Drives in this area should be designed using Design Flex® Pro. Please consult www.gates.com/drivedesign for details.											10
72.4	76.7	82.5	86.7	92.4	98.0	103.6	110.6	0.00	0.28	0.56	0.84	1.12	1.40	1.67	1.95	2.23	2.51	70				
80.6	85.4	91.7	96.5	102.8	109.0	115.3	123.0	0.00	0.32	0.63	0.95	1.27	1.59	1.90	2.22	2.54	2.85	88				
91.9	97.4	104.6	110.1	117.2	124.4	131.5	140.4	0.00	0.37	0.74	1.11	1.48	1.86	2.23	2.60	2.97	3.34	100				
129.4	137.1	147.3	154.9	165.1	175.2	185.2	197.7	0.00	0.56	1.11	1.66	2.22	2.78	3.33	3.88	4.44	4.99	117				
145.0	153.7	165.2	173.7	185.1	196.4	207.6	221.6	0.00	0.63	1.27	1.90	2.54	3.17	3.81	4.44	5.07	5.71	175				
165.4	175.2	188.3	198.1	211.1	224.0	236.8	252.8	0.00	0.74	1.48	2.22	2.96	3.70	4.43	5.17	5.91	6.65	200				
205.6	217.9	234.3	246.4	262.6	278.7	294.6	314.4	0.00	0.95	1.90	2.85	3.81	4.76	5.71	6.66	7.61	8.56	233				
235.0	249.1	267.7	281.6	300.1	318.5	336.7	359.4	0.00	1.11	2.22	3.33	4.44	5.55	6.66	7.77	8.88	9.99	300				
263.8	279.6	300.6	316.2	337.0	357.6	378.0	403.5	0.00	1.27	2.54	3.80	5.08	6.34	7.61	8.88	10.1	11.4	350				
320.2	339.4	364.8	383.8	409.0	433.9	458.7	489.6	0.00	1.59	3.17	4.76	6.34	7.93	9.51	11.1	12.7	14.3	400				
361.4	383.1	411.9	433.3	461.7	489.8	517.8	552.6	0.00	1.82	3.65	5.47	7.30	9.12	10.9	12.8	14.6	16.4	500				
375.0	397.5	427.4	449.6	479.0	508.2	537.2	573.3	0.00	1.90	3.81	5.71	7.61	9.52	11.4	13.3	15.2	17.1	575				
423.3	448.7	482.4	507.4	540.6	573.6	606.2	646.8	0.00	2.19	4.38	6.56	8.75	10.9	13.1	15.3	17.5	19.7	600				
428.6	454.4	488.4	513.8	547.4	580.8	613.8	654.9	0.00	2.22	4.44	6.66	8.88	11.1	13.3	15.5	17.8	20.0	690				
481.2	510.0	548.2	576.7	614.3	651.7	688.7	734.6	0.00	2.54	5.07	7.61	10.2	12.7	15.2	17.8	20.3	22.8	700				
517.3	548.3	589.4	619.9	660.3	700.4	740.1	789.4	0.00	2.76	5.52	8.28	11.0	13.8	16.6	19.3	22.1	24.8	800				
532.7	564.6	606.9	638.3	679.9	721.1	761.9	812.6	0.00	2.86	5.71	8.56	11.4	14.3	17.1	20.0	22.8	25.7	870				
583.3	618.2	664.4	698.7	744.1	789.1	833.7	888.8	0.00	3.17	6.34	9.51	12.7	15.9	19.0	22.2	25.4	28.5	900				
662.4	702.0	754.3	793.1	844.5	895.2	945.4	1008	0.00	3.68	7.36	11.0	14.7	18.4	22.1	25.8	29.4	33.1	1000				
937.8	992.9	1066	1119	1190	1259	1327	1410	0.00	5.55	11.1	16.6	22.2	27.8	33.3	38.8	44.4	49.9	1160				
1047	1108	1188	1247	1324	1400			0.00	6.35	12.7	19.0	25.4	31.7	38.1	44.4	50.7	57.1	1750				
								0.00	9.52	19.0	28.5	38.1	47.6	57.1	66.6	76.1	85.6	2000				
								0.00	10.9	21.9	32.8	43.8	54.7	65.6	76.6	87.5	98.5	3000				
								0.00	12.7	25.4	38.0	50.8	63.4	76.1	88.8	101.5	114.2	3450				
																		4000				

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