

BRUSHLESS SERVO MOTOR SELECTION TABLE FOR GMB AND GMF SERIES

Brushless Servo Motor Selection Table: 2.0", 3.5" & 4.3" Frames

Model Number	Power @ Max Speed		Speed, RPM		Cont. Stall Rating			Peak Stall Torque		Peak Stall Current	KT		KV	RA	LA	Static Friction		Rotor Inertia	
	HP	KW	Max	Rated	Lb-in	Nm	Amps	Lb-in	Nm	Amps	Lb-in/A	Nm/A	V	Ohms	mH	Lb-in	Nm	Lb-in-sec ²	Kg-m ²
GMB2005-8	0.14	0.10	5000	4000	2.4	0.27	2.7	7	0.81	8.0	0.90	0.10	8	9.7	5.8	.3	0.03	0.000054	0.000006
GMB2005-17	0.12	0.09	5000	4000	2.4	0.27	1.2	7	0.81	3.7	1.92	0.22	17	40	25	.3	0.03	0.000054	0.000006
GMB2010-8	0.26	0.19	5000	4000	5	0.56	5.5	15	1.69	16.6	0.90	0.10	8	2.8	2.3	.5	0.06	0.000074	0.000008
GMB2010-17	0.22	0.16	5000	4000	5	0.56	2.6	15	1.69	7.8	1.92	0.22	17	12.5	9.3	.5	0.06	0.000074	0.000008
GMB2010-28	0.16	0.12	5000	4000	5	0.56	1.6	15	1.69	4.7	3.16	0.36	28	30.8	23	.5	0.06	0.000074	0.000008
GMB2015-8	0.36	0.27	5000	4000	7	0.79	7.7	21	2.37	23.2	0.90	0.10	8	1.4	1.6	.6	0.07	0.000099	0.000011
GMB2015-17	0.32	0.24	5000	4000	7	0.79	3.6	21	2.37	10.9	1.92	0.22	17	8.1	8.3	.6	0.07	0.000099	0.000011
GMB2020-8	0.47	0.35	5000	4000	10	1.13	11.1	30	3.39	33.2	0.90	0.10	8	0.9	0.9	.7	0.08	0.000113	0.000013
GMB2020-17	0.44	0.33	5000	4000	10	1.13	5.2	30	3.39	15.6	1.92	0.22	17	4.6	4.8	.7	0.08	0.000113	0.000013
GMB2020-28	0.40	0.30	5000	4000	10	1.13	3.2	30	3.39	9.5	3.16	0.36	28	12.6	13	.7	0.08	0.000113	0.000013
GMB3515-23	0.89	0.66	5000	4000	16	1.81	6.2	48	5.42	18.5	2.60	0.29	23	1.3	4.6	.4	0.05	0.00059	0.000067
GMB3515-38	0.83	0.62	5000	4000	16	1.81	3.8	48	5.42	11.3	4.25	0.48	37	3.6	13.5	.4	0.05	0.00059	0.000067
GMB3515-75	0.55	0.41	3000	2400	16	1.81	1.9	48	5.42	5.6	8.50	0.96	75	15.6	36	.4	0.05	0.00059	0.000067
GMB3530-24	1.36	1.01	5000	4000	30	3.39	11.1	90	10.17	33.2	2.71	0.31	24	0.5	2.5	.5	0.06	0.001	0.000113
GMB3530-37	1.62	1.21	5000	4000	30	3.39	7.3	90	10.17	21.8	4.14	0.47	36	1.3	5.8	.5	0.06	0.001	0.000113
GMB3530-48	0.79	0.59	2500	2000	30	3.39	5.5	90	10.17	16.6	5.42	0.61	48	2.5	10.3	.5	0.06	0.001	0.000113
GMB3530-73	1.05	0.78	3000	2400	30	3.39	3.6	90	10.17	10.9	8.27	0.93	73	8.4	27	.5	0.06	0.001	0.000113
GMB3545-25	1.87	1.39	5000	4000	39	4.41	13.8	117	13.22	41.4	2.82	0.32	25	0.5	2.1	.6	0.07	0.0014	0.000158
GMB3545-50	1.09	0.81	2500	2000	39	4.41	6.9	117	13.22	20.7	5.65	0.64	50	1.4	6.5	.6	0.07	0.0014	0.000158
GMB3545-55	1.97	1.47	4100	3600	39	4.41	6.3	117	13.22	18.8	6.21	0.70	55	1.6	7.4	.6	0.07	0.0014	0.000158
GMB3545-110	0.86	0.64	2000	1500	39	4.41	3.1	117	13.22	9.4	12.43	1.40	110	6.5	33.6	.6	0.07	0.0014	0.000158
GMBF4320-25	1.18	0.88	5000	3000	22	2.49	7.5	66	7.46	22.5	2.94	0.33	26	1.1	8.4	.8	0.09	0.0032	0.000362
GMBF4320-50	0.98	0.73	3500	2500	22	2.49	3.8	66	7.46	11.5	5.76	0.65	51	4.7	14.7	.8	0.09	0.0032	0.000362
GMBF4320-75	0.79	0.59	2500	2000	22	2.49	2.6	66	7.46	7.8	8.47	0.96	75	11.0	39.5	.8	0.09	0.0032	0.000362
GMBF4320-100	0.59	0.44	1750	1500	22	2.49	1.9	66	7.46	5.8	11.41	1.29	101	18.5	43.8	.8	0.09	0.0032	0.000362
GMBF4340-25	1.93	1.44	5000	3000	36	4.07	12.3	108	12.20	36.8	2.94	0.33	26	0.4	5.2	1.0	0.11	0.0059	0.000667
GMBF4340-50	1.61	1.20	3500	2500	36	4.07	6.2	108	12.20	18.7	5.76	0.65	51	1.7	21	1.0	0.11	0.0059	0.000667
GMBF4340-75	1.29	0.96	2500	2000	36	4.07	4.2	108	12.20	12.7	8.47	0.96	75	4.1	36.3	1.0	0.11	0.0059	0.000667
GMBF4340-100	0.96	0.72	1750	1500	36	4.07	3.2	108	12.20	9.5	11.41	1.29	101	7.0	41.2	1.0	0.11	0.0059	0.000667
GMBF4360-25	2.46	1.83	5000	3000	46	5.20	23.9	138	15.59	71.8	1.92	0.22	17	0.1	3.6	1.2	0.14	0.0086	0.000972
GMBF4360-50	2.05	1.53	3500	2500	46	5.20	8.0	138	15.59	23.9	5.76	0.65	51	1.0	11.9	1.2	0.14	0.0086	0.000972
GMBF4360-75	1.64	1.22	2500	2000	46	5.20	5.5	138	15.59	16.5	8.36	0.94	74	2.3	19.8	1.2	0.14	0.0086	0.000972
GMBF4360-100	1.23	0.92	1750	1500	46	5.20	4.1	138	15.59	12.2	11.30	1.28	100	3.9	28.7	1.2	0.14	0.0086	0.000972

KT = Torque/Amp KV = Volts/1000 RPM RA = Ohms LA = Inductance

Glentek, Inc.
208 Standard Street • El Segundo, California 90245 USA
(310) 322-3026 • (310) 322-7709 Fax • www.glentek.com

BRUSHLESS SERVO MOTOR SELECTION TABLE FOR GMB AND GMF SERIES

Brushless Servo Motor Selection Table: 4.5", 5.0", 5.6" & 7.5" Frames

Model Number	Power @ Max Speed		Speed, RPM		Cont. Stall Rating			Peak Stall Torque		Peak Stall Current	KT		KV		RA		LA	Static Friction		Rotor Inertia	
	HP	KW	Max	Rated	Lb-in	Nm	Amps	Lb-in	Nm	Amps	Lb-in/A	Nm/A	V	Ohms	mH	Lb-in	Nm	Lb-in-sec ²	Kg-m ²		
GMB4525-34	2.04	1.52	3450	2850	55	6.21	14.3	165	18.64	42.9	3.84	0.43	34	0.4	2.6	1.0	0.11	0.0026	0.000294		
GMB4525-55	2.14	1.60	4200	3000	55	6.21	8.9	165	18.64	26.6	6.21	0.70	55	1.8	11.2	1.0	0.11	0.0026	0.000294		
GMB4525-110	1.19	0.89	2100	1500	55	6.21	4.4	165	18.64	13.3	12.43	1.40	110	7.2	39.8	1.0	0.11	0.0026	0.000294		
GMB4550-37	2.94	2.19	3200	2500	83	9.38	19.9	249	28.13	59.6	4.18	0.47	37	0.2	1.8	1.4	0.16	0.0051	0.000576		
GMB4550-55	3.29	2.45	4200	3000	83	9.38	13.4	249	28.13	40.1	6.21	0.70	55	0.6	4.9	1.4	0.16	0.0051	0.000576		
GMB4550-74	1.61	1.20	1600	1250	83	9.38	9.9	249	28.13	29.8	8.36	0.94	74	1.1	8.3	1.4	0.16	0.0051	0.000576		
GMB4550-110	1.79	1.34	2100	1500	83	9.38	6.7	249	28.13	20.0	12.43	1.40	110	2.6	17	1.4	0.16	0.0051	0.000576		
GMB4560-50	3.90	2.91	3500	2000	100	11.30	8.8	300	33.90	29.8	10.06	1.14	89	1.0	9.6	1.5	0.17	0.0051	0.000576		
GMB4560-90	2.38	1.77	3000	1500	100	11.30	9.8	300	33.90	29.5	10.17	1.15	90	1.1	9.7	1.6	0.18	0.0052	0.000588		
GMB4575-35	4.18	3.12	3400	2800	116	13.11	29.3	348	39.32	88.0	3.95	0.45	35	0.1	1.1	1.8	0.20	0.0074	0.000836		
GMB4575-55	4.61	3.44	4200	3000	116	13.11	18.7	348	39.32	56.0	6.21	0.70	55	0.3	3.2	1.8	0.20	0.0074	0.000836		
GMB4575-70	2.58	1.92	1750	1400	116	13.11	14.7	348	39.32	44.0	7.91	0.89	70	0.5	4.4	1.8	0.20	0.0074	0.000836		
GMB4575-110	2.48	1.85	2100	1500	116	13.11	9.3	348	39.32	28.0	12.43	1.40	110	1.7	13.4	1.8	0.20	0.0074	0.000836		
GMBF5030-25	1.69	1.26	3000	2900	32.6	3.68	11.5	98	11.05	34.6	2.82	0.32	25	0.6	2.4	1.2	0.14	0.014	0.001582		
GMBF5030-50	1.16	0.87	3000	2000	32.6	3.68	5.8	98	11.05	17.3	5.65	0.64	50	2.3	10.2	1.2	0.14	0.014	0.001582		
GMBF5030-75	0.81	0.60	3000	1400	32.6	3.68	3.8	98	11.05	11.5	8.47	0.96	75	4.8	23	1.2	0.14	0.014	0.001582		
GMBF5030-61	1.05	0.78	2400	1800	32.6	3.68	4.4	98	11.05	13.1	7.46	0.84	66	4.6	19.9	1.2	0.14	0.014	0.001582		
GMBF5040-25	2.07	1.54	3500	2900	40	4.52	14.2	120	13.56	42.5	2.82	0.32	25	0.3	3	1.4	0.16	0.019	0.002147		
GMBF5040-50	1.43	1.07	2400	2000	40	4.52	7.1	120	13.56	21.2	5.65	0.64	50	1.4	12	1.4	0.16	0.019	0.002147		
GMBF5040-75	1.00	0.75	1700	1400	40	4.52	4.7	120	13.56	14.2	8.47	0.96	75	3.5	28	1.4	0.16	0.019	0.002147		
GMBF5060-25	3.45	2.57	3500	2900	75	8.47	26.6	225	25.42	79.7	2.82	0.32	25	0.2	2	1.8	0.20	0.028	0.003164		
GMBF5060-50	2.68	2.00	2400	2000	75	8.47	13.3	225	25.42	39.8	5.65	0.64	50	0.9	7	1.8	0.20	0.028	0.003164		
GMBF5060-75	1.87	1.39	1700	1400	75	8.47	8.9	225	25.42	26.6	8.47	0.96	75	2.1	11	1.8	0.20	0.028	0.003164		
GMB5627-34	4.38	3.27	2700	2400	130	14.69	33.8	390	44.06	101.5	3.84	0.43	34	0.1	1.6	2.4	0.27	0.0096	0.001085		
GMB5627-70	2.83	2.11	1800	1500	130	14.69	16.4	390	44.06	49.3	7.91	0.89	70	0.7	5.4	2.4	0.27	0.0096	0.001085		
GMB5627-115	2.86	2.13	1750	1500	130	14.69	10.0	390	44.06	30.0	12.99	1.47	115	1.9	14.4	2.4	0.27	0.0096	0.001085		
GMB5654-33	6.82	5.09	2700	2400	210	23.73	56.3	630	71.18	169.0	3.73	0.42	33	0.1	1.6	3.0	0.34	0.0192	0.002169		
GMB5654-70	6.82	5.09	2700	2400	210	23.73	26.6	630	71.18	79.7	7.91	0.89	70	0.2	2.2	3.0	0.34	0.0192	0.002169		
GMB5654-115	4.52	3.37	1750	1500	210	23.73	16.2	630	71.18	48.5	12.99	1.47	115	0.6	6.2	3.0	0.34	0.0192	0.002169		
GMB5681-70	9.06	6.76	2700	2400	280	31.64	35.4	840	94.91	106.2	7.91	0.89	70	0.1	1.4	3.6	0.41	0.0288	0.003254		
GMB5681-115	6.00	4.48	1750	1500	280	31.64	21.5	840	94.91	64.6	12.99	1.47	115	0.3	3.9	3.6	0.41	0.0288	0.003254		
GMB56108-93	10.20	7.61	2400	2100	360	40.67	34.3	1080	122.02	102.8	10.51	1.19	93	0.1	1.6	4.2	0.47	0.0384	0.004339		
GMB56108-115	7.62	5.68	1750	1500	360	40.67	27.7	1080	122.02	83.1	12.99	1.47	115	0.2	2.5	4.2	0.47	0.0384	0.004339		
GMB7530-79	13.10	9.77	3000	2400	400	45.19	44.8	1200	135.58	134.4	8.93	1.01	79	0.3	3.7	8.2	0.93	0.0384	0.004339		
GMB7530-158	6.55	4.89	1500	1200	400	45.19	22.4	1200	135.58	67.2	17.85	2.02	158	1.3	15.5	8.2	0.93	0.0384	0.004339		
GMB7560-79	20.95	15.63	3000	2400	640	72.31	71.7	1920	216.93	215.1	8.93	1.01	79	0.1	1.6	9.8	1.11	0.0672	0.007593		
GMB7560-158	10.47	7.81	1500	1200	640	72.31	35.8	1920	216.93	107.5	17.85	2.02	158	0.4	6.4	9.8	1.11	0.0672	0.007593		
GMB7590-79	28.23	21.06	3000	2400	880	99.43	98.6	2640	298.28	295.7	8.93	1.01	79	0.0	1.0	11.4	1.29	0.096	0.010847		
GMB7590-158	14.42	10.76	1500	1200	880	99.43	49.3	2640	298.28	147.9	17.85	2.02	158	0.3	4.4	11.4	1.29	0.096	0.010847		
GMB75120-79	35.76	26.67	3000	2400	1092	123.38	122.3	3276	370.14	367.0	8.93	1.01	79	0.0	0.9	13.0	1.47	0.1224	0.013829		
GMB75120-158	17.88	13.34	1500	1200	1092	123.38	61.2	3276	370.14	183.5	17.85	2.02	158	0.1	3.1	13.0	1.47	0.1224	0.013829		

KT = Torque/Amp KV = Volts/1000 RPM RA = Ohms LA = Inductance

Glentek, Inc.
208 Standard Street • El Segundo, California 90245 USA
(310) 322-3026 • (310) 322-7709 Fax • www.glentek.com