



SPEKTRUM®

Spektrum Servos

Model	Description	Gear Type	Motor Type	Bearing	Spline	Torque/Force	Speed	Dimensions (L x W x H)	Weight	Discontinued	Aircraft								Surface			
											Standard	Giant	Specialty	Micro	Heli 500+	Heli Mini	Heli Micro	Sail Plane	1/12	1/10	1/5	Mini
AIRPLANE																						
SPMSA4040	A4040 HV Mid Torque High Speed Digital Micro MG Servo	Metal	Coreless Brushed	Single BB	23T	96 oz-in (7 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.1 x .54 x 1.23 in (28 x 13.7 x 31.2mm)	0.9 oz (26 g)			✓	✓									
SPMSA5080	A5080 Mid Torque/Speed Mini Digital HV MG Servo	Metal	Coreless Brushed	Single BB	23T	130 oz-in (9.4 kg-cm) @ 8.4V	0.094 sec/60° @ 8.4V	1.4 x .59 x 1.18 in (35.6 x 15 x 30mm)	1.2 oz (34 g)			✓	✓								✓	
SPMSA6190	A6190 Standard Metal Gear HV Digital Servo	Metal	Brushed	Dual BB	23T	115 oz-in (8.3 kg-cm) @ 8.4V	0.13 sec/60° @ 8.4V	1.58 x 0.78 x 1.47 in (40.1 x 19.8 x 37.3mm)	1.9 oz (54 g)			✓										
SPMSA6350	A6350 Ultra Torque High Speed Brushless HV Servo	Metal	Brushless	Dual BB	23T	852 oz-in (61.4 kg-cm) @ 8.4V	0.095 sec/60° @ 8.4V	1.58 x 0.79 x 1.58 in (41 x 21 x 41mm)	2.7 oz (76.5 g)			✓	✓									
SPMSA7090	A7090 Brushless Low Profile MG HV Servo	Metal	Brushless	Dual BB	23T	250 oz-in (18 kg-cm) @ 8.4V	0.068 sec/60° @ 8.4V	1.6 x 0.81 x 0.99 in (40.6 x 20.6 x 25.2mm)	1.8 oz (50 g)			✓	✓								✓	
SPMSA7100	A7100 Mid Torque Mid Speed HV MG Thin Wing Servo	Metal	Coreless Brushed	Single BB	25T*	115 oz-in (8.3 kg-cm) @ 8.4V	0.078 sec/60° @ 8.4V	1.18 x 0.39 x 1.38 in (30 x 10 x 35.1mm)	1.0 oz (28 g)			✓	✓								✓	
SPMSA6110	A6110 HV Standard Analog	Nylon	Coreless Brushed	Single BB	23T	76 oz-in (5.5 kg-cm) @ 6.0V	0.14 sec/60° @ 6.0V	1.50 x 0.72 x 1.44 in (38.3 x 18.4 x 36.6mm)	1.28 oz (36.5 g)			✓										
SPMSA6390	A6390 Standard Analog	Nylon	Coreless Brushed	Single BB	23T	66.7 oz-in (4.8 kg-cm) @ 6.0V	0.14 sec/60° @ 6.0V	1.52 x 0.74 x 1.36 in (38.6 x 18.8 x 34.6mm)	1.3 oz (37 g)			✓										
SPMSA6150	A6150 HV High Torque MG	Metal	Coreless Brushed	Dual BB	23T	180 oz-in (13.0 kg-cm) @ 6.0V	0.12 sec/60° @ 6.0V	1.57 x 0.79 x 1.51 in (40.0 x 20.0 x 38.3mm)	1.90 oz (53.9 g)			✓	✓									
SPMSA6180	A6180 Digital Standard Servo	Metal	Coreless Brushed	Dual BB	23T	94 oz-in (6.8 kg-cm) @ 6.0V	0.14 sec/60° @ 6.0V	1.53 x 0.74 x 1.37 in (38.8 x 18.8 x 34.9mm)	1.48 oz (42.0 g)			✓										
SPMSA6380	A6380 HV Digital High Torque High Speed Standard Servo	Metal	Coreless Brushed	Dual BB	23T	160 oz-in (11.5 kg-cm) @ 8.4V	0.13 sec/60° @ 8.4V	1.52 x 0.74 x 1.47 in (39 x 18.8 x 37mm)	1.5 oz (42.5 g)			✓										
SPMSA6220	A6220 HV Low-Profile High Torque MG	Metal	Coreless Brushed	Dual BB	23T	140 oz-in (10.1 kg-cm) @ 6.0V	0.11 sec/60° @ 6.0V	1.58 x 0.79 x 1.02 in (40.3 x 20.0 x 26.0mm)	1.60 oz (46.0 g)			✓	✓									
SPMSA6265	A6265 HV Digital High Torque MG Aircraft Servo	Metal	Coreless Brushed	Dual BB	23T	328 oz-in (23.6 kg-cm) @ 8.4V	0.15 sec/60° @ 6.0V	1.61 x 0.82 x 1.25 in (40.9 x 20.9 x 31.8mm)	2.20 oz (62.0 g)			✓	✓	✓								
SPMSA6270	A6270 HV Ultra Torque MG	Metal	Coreless Brushed	Dual BB	23T	582 oz-in (41.9 kg-cm) @ 8.4V	0.12 sec/60° @ 6.0V	1.61 x 0.82 x 1.35 in (40.9 x 20.9 x 34.3mm)	2.70 oz (76.5 g)			✓	✓	✓								
SPMSA6300	A6300 Ultra Torque High Speed Metal BL HV Servo	Metal	Brushless	Dual BB	23T	530.22 oz-in (38.20 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.57 x 0.79 x 1.49 in (40 x 20 x 37.8mm)	2.81 oz (79.80 g)			✓	✓									
SPMSA6310	A6310 High Torque High Speed Metal BL HV Servo	Metal	Brushless	Dual BB	23T	350.00 oz-in (25.2 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.49 x 0.79 x 1.57 in (43.7 x 20 x 40mm)	2.5 oz (71.0 g)			✓	✓									
SPMSA6320	A6320 High Torque High Speed Metal BL HV Servo	Metal	Brushless	Dual BB	23T	270.1 oz-in (19.5 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.49 x 0.79 x 1.57 in (43.7 x 20 x 40mm)	2.2 oz (62.0 g)			✓	✓	✓								
SPMSA6330	A6330 Digital HV High Torque High Speed BL MG Servo	Metal	Brushless	Dual BB	23T	248 oz-in (17.9 kg-cm) @ 8.4V	0.10 sec/60° @ 8.4V	1.49 x 0.79 x 1.57 in (43.7 x 20 x 40mm)	2.25 oz (71 g)			✓	✓							✓	✓	✓
SPMSA4010	A4010 Micro Digital	Nylon	Coreless Brushed	Single BB	23T	42 oz-in (3.0 kg-cm) @ 6.0V	0.11 sec/60° @ 6.0V	1.10 x 0.50 x 1.07 in (28.0 x 12.7 x 27.4mm)	0.60 oz (17.2 g)			✓										
SPMSA4030	A4030 Micro HV Digital High Torque MG	Metal	Coreless Brushed	Dual BB	23T	83.3 oz-in (6.0 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	1.10 x 0.50 x 1.07 in (28.0 x 12.7 x 27.4mm)	0.71 oz (20.0 g)			✓	✓									
SPMSA5030	A5030 Mini Digital	Nylon	Coreless Brushed	Dual BB	23T	66 oz-in (4.8 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	1.30 x 0.58 x 1.10 in (33.0 x 15.0 x 28.0mm)	0.83 oz (23.6 g)			✓										
SPMSA5040	A5040 Mini Digital MG	Metal	Coreless Brushed	Dual BB	23T	66 oz-in (4.8 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	1.30 x 0.58 x 1.10 in (33.0 x 15.0 x 28.0mm)	0.76 oz (21.6 g)			✓										
SPMSA5060	A5060 Mini HV Digital High Torque MG	Metal	Coreless Brushed	Dual BB	23T	118 oz-in (8.5 kg-cm) @ 6.0V	0.11 sec/60° @ 6.0V	1.30 x 0.58 x 1.08 in (32.8 x 14.7 x 27.4mm)	0.92 oz (26.0 g)			✓										
SPMSA5070	A5070 High Torque High Speed Mini MG HV Servo	Metal	Coreless Brushed	Dual BB	23T	190.58 oz-in (5.4 kg-cm) @ 8.4V	0.078 sec/60° @ 8.4V	1.32 x 0.59 x 1.16 in (33.5 x 14.9 x 29.4mm)	1.4 oz (40 g)			✓	✓	✓								
SPMSA2010	A2010 Ultra Micro	Nylon	Coreless Brushed	Single BB	21T	2.5 oz-in (0.18 kg-cm) @ 4.8V	0.06 sec/60° @ 4.8V	0.71 x 0.31 x 0.67 in (18.1 x 8.0 x 16.9mm)	0.09 oz (2.50 g)			✓										
SPMSA2020	A2020 Nanolite	Nylon	Coreless Brushed	Single BB	21T	12 oz-in (0.86 kg-cm) @ 4.8V	0.08 sec/60° @ 4.8V	0.78 x 0.33 x 0.90 in (19.7 x 8.30 x 22.8mm)	0.14 oz (4.10 g)			✓										
SPMSA3030	A3030 Sub-Micro Digital High Torque	Nylon	Coreless Brushed	Single BB	21T	28 oz-in (2 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	0.93 x 0.45 x 1.00 in (23.6 x 11.5 x 25.5mm)	0.30 oz (8.60 g)			✓										
SPMSA3040	A3040 Sub-Micro Digital High Torque MG	Metal	Coreless Brushed	Single BB	21T	28 oz-in (2 kg-cm) @ 6.0V	0.10 sec/60° @ 6.0V	0.93 x 0.45 x 1.00 in (23.6 x 11.5 x 25.5mm)	0.44 oz (12.6 g)			✓										
SPMSA7020	A7020 Digital Thin Wing	Metal	Coreless Brushed	Dual BB	23T	50 oz-in (3.6 kg-cm) @ 6.0V	0.09 sec/60° @ 6.0V	1.08 x 0.39 x 1.07 in (27.4 x 10.0 x 27.2mm)	0.50 oz (14.5 g)			✓	✓									
SPMSA7040	A7040 HV Retract	Metal	Coreless Brushed	Dual BB	23T	266 oz-in (19.2 kg-cm) @ 6.0V	1.39 sec/160° @ 6.0V	1.70 x 0.87 x 1.07 in (44.0 x 22.2 x 27.3mm)	1.48 oz (42.0 g)			✓										
SPMSA7050	A7050 HV Thin Wing	Metal	Coreless Brushed	Dual BB	23T	65 oz-in (4.70 kg-cm) @ 6.0V	0.07 sec/60° @ 6.0V	1.08 x 0.40 x 1.06 in (27.4 x 10.2 x 27.0mm)	0.70 oz (20.0 g)			✓	✓									
SPMSA2005	1.8-Gram Linear	Nylon	Brushed	Dual BB	NA	2.8 oz (79.4 g) @ 4.2V	0.14 sec @ 4.2V	0.60 x 0.59 x 0.33 in (16.0 x 15.0 x 8.20mm)	0.06 oz (1.80 g)													

*Specialty size spline - Servo arms of similar spline tooth count may not fit