

HYPERION HS SERIES HIGH-RPM OUTRUNNERS FOR HELICOPTERS, SPEED AIRCRAFT, and EDF JETS

Hyperion Motor #	Kv	Ri Ω	NoLoad I _o A@V	Magnet Count	Stator Poles	Weight (g)	Output Shaft dia. mm	Max Cont. Current	Max Cont. Watts	Max Peak Current	Max Peak Watts
HP-HS2206-3900	3900	0.064	0.83@6	6	9	32	2.5	14	150	18	200
HP-HS2206-5300	5300	0.031	2.12@6	6	9	32	2.3	18	130	24	175
HP-HS2208-2600	2600	0.126	0.85@10	6	9	39	3.17	15	160	20	215
HP-HS2208-3125	3125	0.081	1.15@10	6	9	39	3.17	18	200	24	270
HP-HS2208-3600	3600	0.061	1.21@10	6	9	39	3.17	21	220	28	295
HP-HS2213-2640	2640	0.063	1.10@10	6	9	54	3.17	26	280	35	375
HP-HS2213-3200	3200	0.040	1.60@10	6	9	54	3.17	30	310	40	415
HP-HS2213-3585	3585	0.038	1.74@10	6	9	54	3.17	32	330	43	445
HP-HS2216-2608	2608	0.048	1.19@10	6	9	64	3.17	30	320	40	430
HP-HS2216-2920	2920	0.040	1.35@10	6	9	64	3.17	32	340	43	455
HP-HS2216-3350	3350	0.033	1.87@10	6	9	64	3.17	35	375	47	505
HP-HS2221-1630	1630	0.079	0.71@10	6	9	79	3.17	25	400	38	600
HP-HS2221-2580	2580	0.038	1.50@10	6	9	79	3.17	38	400	51	600
HP-HS2221-3000	3000	0.031	1.79@10	6	9	79	3.17	42	440	56	600
HP-HS2221-3595	3595	0.024	2.31@10	6	9	79	3.17	45	475	60	640
HP-HS2221-4400	4400	0.016	2.89@10	6	9	79	3.17	52	525	70	705
HP-HS3026-0880	880	0.026	1.93@10	10	12	199	5.0	52	1450	70	1955
HP-HS3026-1000	1000	0.028	1.17@10	8	12	199	5.0	62	1300	83	1755
HP-HS3026-1210	1210	0.018	1.63@10	8	12	193	5.0	65	1365	87	1840
HP-HS3026-1400	1400	0.010	3.33@10	10	12	199	5.0	80	1680	108	2265
HP-HS3026-1600	1600	0.016	1.90@10	6	9	196	5.0	70	1470	94	1980
HP-HS3026-1900	1900	0.012	3.02@10	6	9	193	5.0	80	1400	108	1890
HP-HS4020-0910	910	0.015	1.95@10	8	12	284	5.0	65	1820	87	2455
HP-HS4020-1100	1100	0.010	2.45@10	8	12	286	5.0	78	1640	105	2210
HP-HS4020-1390	1390	0.007	3.45@10	8	12	284	5.0	90	1890	120	2550
HP-HS4025-0630	630	0.024	1.11@8.4	8	12	326	5.0	65	2700	87	3645
HP-HS4025-0740	740	0.017	1.33@8.4	8	12	326	5.0	75	2600	101	3510
HP-HS4025-0890	890	0.013	1.80@8.4	8	12	326	5.0	95	2700	128	3645
HP-HS4025-1100	1100	0.008	2.40@10	8	12	326	5.0	100	2200	135	2970
HP-HS4035-0400	400	0.038	1.38@10	8	12	435	8.0	78	3400	105	4590
HP-HS4035-0500	500	0.020	1.77@8.4	10	12	431	6.0	84	3500	113	4725
HP-HS4035-0560	560	0.012	2.10@8.4	10	12	444	6.0	100	4200	135	5670
HP-HS4035-0630	630	0.014	1.60@8.4	8	12	421	6.0	95	4000	128	5400
HP-HS4035-0800	800	0.010	2.50@8.4	8	12	435	8.0	100	4200	135	5670

Many of the motors above can be used in a fast fixed-wing models such as a pylon racer or EDF jets, depending on the propellor/fan chosen and voltage delivered by the battery pack under load. Most of the motors also have specific applications in helicopter models. See reverse page for further information on both. Note that each motor series has the same Theoretical continuous and peak max WATTS. However, in practice users often limit voltages to one or two "S" types, so some motors are derated for watts on this basis.

We suggest Hyperion Atlas ESC, Servos, and G3 Lipo for max power, precision, and reliability



The all-new Atlas series ESC follow the lead of Hs motors in materials, design, and quality control. Via components such as an expensive 8-layer PCB and the newest, best FETs, they achieve our goal of the lowest resistance, highest performing ESC on the RC market today. Capping the superb hardware is an excellent new firmware driver, which provides smooth and efficient motor driving, and a marvelously stable helicopter governor mode. Look for Hyperion Atlas speed controllers at World Championship R/C events this year and next. (release starting August 2009)



Hyperion Atlas digital servos are made in Korea to the highest standards. All are fully programmable via PC software, or can use the Emeter V2 to set speed, travel, center, dead-band, and rotation direction. This allows for greater safety, as each servo can be programmed for the model, avoiding a crash due to wrong model memory setting on your transmitter. They're also great for scale applications such as slow-opening doors and flaps. But most of all these servos are becoming known for their incredibly precise centering, power, and reliability - all at a great price.



The new G3 Lipo packs represent a major shift in LiPo performance and value. Compared to an average of the batteries on market last year, they last up to 4x longer under the same conditions. Many users are already reporting several hundred cycles with little or no reduction in performance! That long, long lifespan makes them a bargain price-wise. But they also deliver the high voltage with flat discharge curves under load, which makes them top performers. The fact that they can be safely charged at up to "5C" rates - for charge times as low as 10 to 12 minutes - is just icing on a very tasty cake.

Hyperion Motor	Model Applications
HP-HS2206-3900	Trex 250 or similar, 3S LiPo (G3 CX 850mAh) 2.5mm output shaft
HP-HS2206-5300	Gauai 200 or similar, 2S LiPo (G3 CX 850mAh) 2.3mm output shaft
HP-HS2208-2600	High-performance replacement motors for Heli in 200-370 class range. Choose Kv closest to stock motor. Batteries typically 2S or 3S depending on model. Examples: Esky HoneyBee, Eflight Blade CP, etc... 3.17mm output shafts
HP-HS2208-3125	
HP-HS2208-3600	
HP-HS2213-3585	High-performance replacement for Heli in 370~400 class range. Choose Kv nearest to stock motor. Batteries typically 3S depending on model. Examples: Blade 400, Heli-Max 400, etc... 3.17mm output shafts
HP-HS2213-3200	
HP-HS2213-2640	
HP-HS2216-3350	High-performance replacement for Heli 400 to 450 class. Choose Kv nearest to stock motor. Batteries typically 3S depending on model. Examples: Blade 400, Heli-Max 400, etc... 3.17mm output shafts
HP-HS2216-2920	
HP-HS2216-2608	
Hs2221 series below are popular in fast prop airplanes and boats, 60~70mm EDF units, and 450~480 class heli	
HP-HS2221-1630	OUTRAGE G5 (or Trex 450, TT Mini Titan) with G3 2200VX 6S lipo pack. 13T pinion usually, but 12T to 14T may be usable; check headspeed and current to avoid over-stress. ESC typically 35A~60A SBEC type
HP-HS2221-2580	A high-efficiency setup for 4S. Use 11T to 13T pinion on 4S for 2800~3300rpm headspeed. 40A~60A ESC
HP-HS2221-3000	Highly efficient on 3S with 13T pinion with 2700~2850rpm headspeed (intermediate pilots). Or 4S 12T for about 3000rpm headspeed.
HP-HS2221-3595	Most popular type for 450-480 Heli with 150T main. 11T to 13T pinion on 3S for 2800~3300rpm headspeed. 40A~60A ESC, 2100Mah+ 25C~35C battery, metal head suggested.
HP-HS2221-4400	Max 3D 450-480 Heli with 150T main. 10T to 13T pinion on 3S for 3200~3800rpm headspeed. 12T and 13T pinion MUST use metal head&grips, carbon blades, 60A ESC and 2200Mah 35C battery pack!
Hs3026 series below are popular in fast prop airplanes and boats, 80~100mm EDF units, and 500 class heli	
HP-HS3026-0880	MSH Protos Helicopter upgrade motor.
HP-HS3026-1000	Hirobo Lepton Helicopter upgrade motor.
HP-HS3026-1210	Duration choice for Trex 500 on 6S, or high-power using 8S lipo with 12T~13T pinion. ESC 60A~90A. Also popular for some medium-fast prop airplanes.
HP-HS3026-1400	Max 3D Upgrade on 6S G3 2600VX lipo, for Trex 450 (14, 15T) and Mikado Logo 400 (14T, 15T). Head, grips, and blades should be metal/carbon. ESC 80A~90A. Superb for fast prop airplanes and EDF.
HP-HS3026-1600	Upgrade motor for Trex 500 6S on 13T. Improved performance, but stock Align ESC can be used. Also a good upgrade for Mikado Logo 400 on 6S with 15T or 16T pinion. Also often used in EDF/Pylon airplanes.
HP-HS3026-1900	Trex 500 and Logo 400 with 5S G3 3300VX lipo suggested, using 12T~13T for Trex and 13T~14T for Logo. ESC 80A~90A.
Hs4020 motors below are popular in fast prop airplanes, boats, and helicopters with 500~550mm main blades, such as Logo500, Logo14, Logo16, Century Swift, and similar.	
HP-HS4020-0910	5mm shaft. For Heli typically using 8~10 lipo cells
HP-HS4020-1100	5mm shaft. For Heli typically using 6~8 lipo cells
HP-HS4020-1390	5mm shaft. For Heli typically using 5~6 lipo cells
Hs4025 are used in fast airplanes, boats, and heli with 600~650mm main blades, such as Logo600 and Trex600	
HP-HS4025-0630	5mm shaft. For Heli typically using 12 lipo cells.
HP-HS4025-0740	5mm shaft. For Heli typically using 10 lipo cells.
HP-HS4025-0890	5mm shaft. For Heli typically using 8 lipo cells
HP-HS4025-1100	5mm shaft. For Heli typically using 6 lipo cells. Very fast airplanes/boats on 5S~6S about 100A peak current max with cooling airflow, or 70A in closed boat with 3 minute max runtime.
Hs4035 are used in fast airplanes, boats, and heli with 690~720mm main blades, such as Trex700, or can be used as a "max power & efficiency" choice for 600mm mainblade models like Trex 600	
HP-HS4035-0400	8mm Shaft. For Fast prop airplanes and boats, or conversion of some 90-class gas helicopters 10S~14S
HP-HS4035-0500	6mm shaft. For Heli typically using 12 lipo cells
HP-HS4035-0560	6mm shaft. For Heli typically using 10~12 lipo cells
HP-HS4035-0630	6mm shaft. For Heli typically using 8~10 lipo cells
HP-HS4035-0800	8mm shaft. EDF conversion for 120mm fans (Hoaye, DynaEmax, Ramtech). Or for Fast prop airplanes and boats.