

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 1100VX 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. |