



KH-278 Outrunner Motor Performance Database

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Magnet Wire	Turns	Propeller	Strand	Config.	NdFeB Magnet	Volt	Amp	Watt	RPM	Thrust (g)	Thrust (oz)	g/W	Pitch speed (mph)
23g	8	APC 5.5 x 4.5	Single	Y	N50	8.59	10.90	93.63	14500	309	10.90	3.30	61.79
23g	8	APC 5.25 x 4.75	Single	Y	N50	8.95	10.80	96.66	14900	322	11.36	3.33	67.02
23g	8	APC 5.1 x 4.5E	Single	Y	N50	8.29	11.10	92.02	13100	323	11.39	3.51	55.82
23g	8	APC 4.75 x 4.75	Single	Y	N50	9.24	9.60	88.70	15300	225	7.94	2.54	68.82
23g	8	APC 4.7 x 4.2	Single	Y	N50	9.58	9.10	87.18	16200	256	9.03	2.94	64.43
23g	8	APC 4.5 x 4.1	Single	Y	N50	9.75	8.00	78.00	16300	231	8.15	2.96	63.29
23g	8	APC 4.1 x 4.1	Single	Y	N50	9.84	7.20	70.20	16900	180	6.35	2.56	65.62
23g	10	APC 5.5 x 4.5	Single	Y	N50	9.56	7.60	72.66	12500	246	8.68	3.39	53.27
23g	10	APC 5.25 x 4.75	Single	Y	N50	9.45	7.30	68.99	12900	247	8.71	3.58	58.03
23g	10	APC 5.1 x 4.5E	Single	Y	N50	9.42	8.00	75.36	12100	272	9.59	3.61	51.56
23g	10	APC 4.75 x 4.75	Single	Y	N50	9.81	6.20	60.82	13200	172	6.07	2.83	59.37
23g	10	APC 4.7 x 4.2	Single	Y	N50	9.90	5.70	56.43	14000	185	6.53	3.28	55.68
24g	12	EP9050 HD	Single	Y	N45H	10.60	14.00	148.00	8880	780	27.51	5.26	42.05
24g	12	EP9050 HD	Single	Y	N45H	9.60	12.20	117.00	8175	668	23.56	5.70	38.71
24g	12	EP9050 HD	Single	Y	N45H	8.60	11.00	95.00	7770	583	20.56	6.16	36.79
24g	12	EP9050 HD	Single	Y	N45H	7.70	9.50	73.00	7215	512	18.06	7.00	34.16
24g	12	EP9050 HD	Single	Y	N45H	6.70	7.80	52.00	6540	410	14.46	7.85	30.97
24g	12	EP8043 SF	Single	Y	N45H	10.60	11.50	122.00	10020	643	22.68	5.27	40.80
24g	12	EP8043 SF	Single	Y	N45H	9.70	9.80	95.00	9240	545	19.22	5.73	37.62
24g	12	EP8043 SF	Single	Y	N45H	8.70	8.50	74.00	8460	463	16.33	6.26	34.45
24g	12	EP8043 SF	Single	Y	N45H	7.70	7.20	55.00	7710	387	13.65	6.98	31.39
24g	12	EP8043 SF	Single	Y	N45H	6.80	6.00	41.00	7005	317	11.18	7.77	28.52
24g	12	EP7035 HD	Single	Y	N45H	10.80	5.30	57.00	12330	346	12.20	6.04	40.87
24g	12	EP7035 HD	Single	Y	N45H	9.80	4.50	44.00	11370	287	10.12	6.51	37.68
24g	12	EP7035 HD	Single	Y	N45H	8.80	3.90	34.00	10410	229	8.08	6.67	34.50
24g	12	EP7035 HD	Single	Y	N45H	7.80	3.20	25.00	9390	186	6.56	7.45	31.12
24g	12	EP7035 HD	Single	Y	N45H	6.80	2.70	18.00	8340	141	4.97	7.68	27.64
28g	15	EP1047 SF	Double	Y	N45H	8.40	11.20	94.08	5300	603	21.27	6.41	23.59
28g	15	EP9047 SF	Double	Y	N45H	9.37	8.90	83.93	7200	545	19.22	6.45	32.05
28g	15	EP8043 SF	Double	Y	N45H	9.98	7.40	73.85	8300	470	16.58	6.36	33.80
28g	15	EP7035 HD	Double	Y	N45H	10.83	3.70	40.07	10500	256	9.03	6.39	34.80
28g	15	EP6030 SF	Double	Y	N45H	10.89	3.30	35.94	10600	210	7.41	5.84	30.11
26g	20	EP1180 SF	Single	Y	N50	11.00	10.00	110.00		505	17.81		



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Magnet Wire	Turns	Propeller	Strand	Config.	NdFeB Magnet	Volt	Amp	Watt	RPM	Thrust (g)	Thrust (oz)	g/W	Pitch speed (mph)
26g	20	EP1180 SF	Single	Y	N50	10.00	9.00	90.00		470	16.58		
26g	20	EP1180 SF	Single	Y	N50	9.00	8.20	73.80		432	15.24		
26g	20	EP1180 SF	Single	Y	N50	8.00	7.20	57.60		389	13.72		
26g	20	EP1180 SF	Single	Y	N50	7.00	6.20	43.40		308	6.20		
26g	20	EP1260 SF	Single	Y	N50	11.00	11.20	123.20		650	22.93		
26g	20	EP1260 SF	Single	Y	N50	10.00	9.40	94.00		560	19.75		
26g	20	EP1260 SF	Single	Y	N50	9.00	8.10	72.90		488	17.21		
26g	20	EP1260 SF	Single	Y	N50	8.00	6.90	55.20		425	14.99		
26g	20	EP1260 SF	Single	Y	N50	7.00	5.90	41.30		349	12.31		
22g	8	APC 5.5 x 4.5	Single	Y	N50	10.60	13.50	143.00	16440	450	15.87	3.14	70.06
22g	8	APC 5.5 x 4.5	Single	Y	N50	9.70	11.50	112.00	15210	380	13.40	3.41	64.82
22g	8	APC 5.5 x 4.5	Single	Y	N50	8.70	9.80	85.00	13920	321	11.32	3.76	59.32
22g	8	APC 5.5 x 4.5	Single	Y	N50	7.70	8.30	64.00	12660	252	8.89	3.94	53.95
22g	8	APC 5.5 x 4.5	Single	Y	N50	6.70	7.10	48.00	11250	190	6.70	3.99	47.94
22g	8	APC 5.25 x 4.75	Single	Y	N50	10.60	12.70	135.00	16620	429	15.13	3.19	74.76
22g	8	APC 5.25 x 4.75	Single	Y	N50	9.70	10.60	103.00	15390	368	12.98	3.58	69.23
22g	8	APC 5.25 x 4.75	Single	Y	N50	8.70	9.30	81.00	14250	298	10.51	3.68	64.10
22g	8	APC 5.25 x 4.75	Single	Y	N50	7.70	7.90	61.00	12750	234	8.25	3.85	57.35
22g	8	APC 5.25 x 4.75	Single	Y	N50	6.70	6.80	46.00	11610	193	6.81	4.24	52.22
22g	8	APC 5.1 x 4.5E	Single	Y	N50	10.60	14.60	155.00	15960	483	17.04	3.12	68.01
22g	8	APC 5.1 x 4.5E	Single	Y	N50	9.60	12.60	121.00	14880	408	14.39	3.37	63.41
22g	8	APC 5.1 x 4.5E	Single	Y	N50	8.70	10.60	92.00	13770	350	12.35	3.80	58.68
22g	8	APC 5.1 x 4.5E	Single	Y	N50	7.70	9.00	69.00	12540	280	9.88	4.04	53.44
22g	8	APC 5.1 x 4.5E	Single	Y	N50	6.70	7.40	50.00	11280	225	7.94	4.54	48.07
22g	8	APC 5 x 5	Single	Y	N50	10.70	11.50	123.00	17190	372	13.12	3.02	81.39
22g	8	APC 5 x 5	Single	Y	N50	9.70	9.90	96.00	15870	320	11.29	3.33	75.14
22g	8	APC 5 x 5	Single	Y	N50	8.70	8.50	74.00	14550	265	9.35	3.58	68.89
22g	8	APC 5 x 5	Single	Y	N50	7.70	7.20	55.00	13140	213	7.51	3.84	62.22
22g	8	APC 5 x 5	Single	Y	N50	6.70	6.10	41.00	11730	168	5.93	4.11	55.54
22g	8	APC 4.75 x 4.75	Single	Y	N50	10.70	10.70	114.00	17250	285	10.05	2.49	77.59
22g	8	APC 4.75 x 4.75	Single	Y	N50	9.70	9.10	88.00	16020	236	8.32	2.67	72.06
22g	8	APC 4.75 x 4.75	Single	Y	N50	8.7	7.60	66.00	14700	200	7.05	3.02	66.12
22g	8	APC 4.75 x 4.75	Single	Y	N50	7.70	6.50	50.00	13260	160	5.64	3.20	59.64

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Magnet Wire	Turns	Propeller	Strand	Config.	NdFeB Magnet	Volt	Amp	Watt	RPM	Thrust (g)	Thrust (oz)	g/W	Pitch speed (mph)
22g	8	APC 4.75 x 4.75	Single	Y	N50	6.70	5.40	36.00	11850	126	4.44	3.48	53.30
22g	8	APC 4.7 x 4.2	Single	Y	N50	10.70	8.90	95.00	17940	310	10.93	3.26	71.35
22g	8	APC 4.7 x 4.2	Single	Y	N50	9.70	7.90	77.00	16500	264	9.31	3.45	65.62
22g	8	APC 4.7 x 4.2	Single	Y	N50	8.70	6.60	57.00	15240	218	7.69	3.80	60.61
22g	8	APC 4.7 x 4.2	Single	Y	N50	7.70	5.50	42.00	13710	173	6.10	4.09	54.53
22g	8	APC 4.7 x 4.2	Single	Y	N50	6.80	4.70	32.00	12360	134	4.73	4.19	49.16
22g	8	APC 4.5 x 4.1	Single	Y	N50	10.70	8.50	91.00	18210	299	10.55	3.29	70.70
22g	8	APC 4.5 x 4.1	Single	Y	N50	9.70	7.40	72.00	16800	247	8.71	3.44	65.23
22g	8	APC 4.5 x 4.1	Single	Y	N50	8.70	6.30	55.00	15360	202	7.13	3.69	59.64
22g	8	APC 4.5 x 4.1	Single	Y	N50	7.70	5.30	41.00	13980	164	5.78	4.02	54.28
22g	8	APC 4.5 x 4.1	Single	Y	N50	6.80	4.50	31.00	12570	127	4.48	4.15	48.80
22g	8	APC 4.1 x 4.1	Single	Y	N50	10.70	7.30	78.00	18720	201	7.09	2.57	72.68
22g	8	APC 4.1 x 4.1	Single	Y	N50	9.70	6.40	62.00	17130	172	6.07	2.77	66.51
22g	8	APC 4.1 x 4.1	Single	Y	N50	8.80	5.40	48.00	15750	138	4.87	2.90	61.15
22g	8	APC 4.1 x 4.1	Single	Y	N50	7.80	4.70	37.00	13830	112	3.95	3.06	53.70
22g	8	APC 4.1 x 4.1	Single	Y	N50	6.80	3.90	27.00	12660	86	3.03	3.24	49.15
24g	16	EP1047 SF	Single	Y	N45H	10.60	12.70	135.00	6270	756	26.67	5.62	27.91
24g	16	EP1047 SF	Single	Y	N45H	9.70	10.60	103.00	5790	650	22.93	6.32	25.77
24g	16	EP1047 SF	Single	Y	N45H	8.70	9.20	80.00	5370	540	19.05	6.75	23.90
24g	16	EP1047 SF	Single	Y	N45H	7.70	8.00	62.00	4980	468	16.51	7.60	22.16
24g	16	EP1047 SF	Single	Y	N45H	6.70	6.80	46.00	4605	384	13.55	8.43	20.50
24g	16	EP1060 HD	Single	Y	N45H	10.60	11.00	117.00	7020	734	25.89	6.30	39.89
24g	16	EP1060 HD	Single	Y	N45H	9.70	9.30	90.00	6510	608	21.45	6.74	36.99
24g	16	EP1060 HD	Single	Y	N45H	8.70	8.20	71.00	6060	520	18.34	7.29	34.43
24g	16	EP1060 HD	Single	Y	N45H	7.70	6.90	53.00	5550	449	15.84	8.45	31.53
24g	16	EP1060 HD	Single	Y	N45H	6.80	5.90	40.00	5085	376	13.26	9.37	28.89
24g	16	EP0947 SF	Single	Y	N45H	10.70	8.50	91.00	7755	603	21.27	6.63	34.52
24g	16	EP0947 SF	Single	Y	N45H	9.70	7.50	73.00	7125	518	18.27	7.12	31.71
24g	16	EP0947 SF	Single	Y	N45H	8.70	6.50	57.00	6540	440	15.52	7.78	29.11
24g	16	EP0947 SF	Single	Y	N45H	7.80	5.60	44.00	5970	376	13.26	8.61	26.57
24g	16	EP0947 SF	Single	Y	N45H	6.80	4.70	32.00	5415	306	10.79	9.57	24.10
24g	16	EP9050 HD	Single	Y	N45H	10.70	8.70	93.00	7815	627	22.12	6.74	37.00
24g	16	EP9050 HD	Single	Y	N45H	9.70	7.30	71.00	7185	537	18.94	7.58	34.02



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24g	16	EP9050 HD	Single	Y	N45H	8.70	6.30	55.00	6675	458	16.16	8.36	31.61
24g	16	EP9050 HD	Single	Y	N45H	7.80	5.50	43.00	6075	380	13.40	8.86	28.76
24g	16	EP9050 HD	Single	Y	N45H	6.80	4.50	31.00	5475	309	10.90	10.10	25.92
24g	16	EP8043 SF	Single	Y	N45H	10.70	6.60	71.00	8505	496	17.50	7.02	34.63
24g	16	EP8043 SF	Single	Y	N45H	9.70	5.80	56.00	7890	423	14.92	7.52	32.13
24g	16	EP8043 SF	Single	Y	N45H	8.80	5.10	45.00	7245	363	12.80	8.09	29.50
24g	16	EP8043 SF	Single	Y	N45H	7.80	4.20	33.00	6540	295	10.41	9.00	26.63
24g	16	EP8043 SF	Single	Y	N45H	6.80	3.50	24.00	5760	226	7.97	9.50	23.45
24g	16	EP7035 HD	Single	Y	N45H	10.80	2.90	31.00	9960	225	7.94	7.18	33.01
24g	16	EP7035 HD	Single	Y	N45H	9.80	2.50	25.00	9180	187	6.60	7.63	30.43
24g	16	EP7035 HD	Single	Y	N45H	8.80	2.10	18.00	8370	150	5.29	8.12	27.74
24g	16	EP7035 HD	Single	Y	N45H	7.80	1.80	14.00	7500	119	4.20	8.48	24.86
24g	16	EP7035 HD	Single	Y	N45H	6.80	1.50	10.00	6630	89	3.14	8.73	21.97
24g	16	APC 5.5 x 4.5	Single	Y	N45H	10.80	3.00	32.00	10020	142	5.01	4.38	42.70
24g	16	APC 5.5 x 4.5	Single	Y	N45H	9.80	2.60	25.00	9210	126	4.44	4.95	39.25
24g	16	APC 5.5 x 4.5	Single	Y	N45H	8.80	2.30	20.00	8370	101	3.56	4.99	35.67
24g	16	APC 5.5 x 4.5	Single	Y	N45H	7.80	1.90	15.00	7530	80	2.82	5.40	32.09
24g	16	APC 5.5 x 4.5	Single	Y	N45H	6.80	1.60	11.00	6615	70	2.47	6.43	28.19
27g	29	EP1047 SF	Single	Y	N50	10.80	3.70	40.00	4470	376	13.26	9.41	19.89
27g	29	EP1047 SF	Single	Y	N50	9.80	3.20	31.00	4140	328	11.57	10.46	18.43
27g	29	EP1047 SF	Single	Y	N50	8.90	2.70	24.00	3870	264	9.31	10.99	17.22
27g	29	EP1047 SF	Single	Y	N50	7.90	2.30	18.00	3525	227	8.01	12.49	15.69
27g	29	EP1047 SF	Single	Y	N50	6.90	1.90	13.00	3165	183	6.46	13.96	14.09
27g	29	EP1060 HD	Single	Y	N50	10.90	3.00	33.00	4770	340	11.99	10.40	27.10
27g	29	EP1060 HD	Single	Y	N50	9.90	2.70	27.00	4440	288	10.16	10.77	25.23
27g	29	EP1060 HD	Single	Y	N50	8.90	2.30	20.00	4080	237	8.36	11.58	23.18
27g	29	EP1060 HD	Single	Y	N50	7.90	1.90	15.00	3690	200	7.05	13.32	20.97
27g	29	EP1060 HD	Single	Y	N50	6.90	1.60	11.00	3310	160	5.64	14.49	18.81
27g	29	EP9047 SF	Single	Y	N50	10.90	2.40	26.00	6040	278	9.81	10.63	22.43
27g	29	EP9047 SF	Single	Y	N50	9.90	2.20	22.00	4665	238	8.40	10.93	20.76
27g	29	EP9047 SF	Single	Y	N50	8.90	1.80	16.00	4260	199	7.02	12.42	18.96
27g	29	EP9047 SF	Single	Y	N50	7.90	1.60	13.00	3850	162	5.71	12.82	17.14
27g	29	EP9047 SF	Single	Y	N50	6.90	1.30	9.00	3420	128	4.52	14.27	15.22



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27g	29	EP9050 HD	Single	Y	N50	10.90	2.30	25.00	5190	272	9.59	10.85	24.57
27g	29	EP9050 HD	Single	Y	N50	9.90	2.00	20.00	4770	228	8.04	11.52	22.59
27g	29	EP9050 HD	Single	Y	N50	8.90	1.80	16.00	4365	190	6.70	11.86	20.67
27g	29	EP9050 HD	Single	Y	N50	7.90	1.50	12.00	3930	149	5.26	12.57	18.61
27g	29	EP9050 HD	Single	Y	N50	6.90	1.20	8.00	3480	120	4.23	14.49	16.48
27g	29	EP8043 SF	Single	Y	N50	10.90	1.90	21.00	5460	206	7.27	9.95	22.23
27g	29	EP8043 SF	Single	Y	N50	9.90	1.60	16.00	4995	174	6.14	10.98	20.34
27g	29	EP8043 SF	Single	Y	N50	8.90	1.30	12.00	4545	142	5.01	12.27	18.51
27g	29	EP8043 SF	Single	Y	N50	7.90	1.20	9.00	4095	116	4.09	12.24	16.67
27g	29	EP8043 SF	Single	Y	N50	6.90	1.00	7.00	3615	92	3.25	13.33	14.72
27g	29	EP7035 HD	Single	Y	N50	11.00	0.80	9.00	5985	73	2.57	8.30	19.84
27g	29	EP7035 HD	Single	Y	N50	10.00	0.70	7.00	5430	58	2.05	8.29	18.00
27g	29	EP7035 HD	Single	Y	N50	9.00	0.60	5.00	4920	48	1.69	8.89	16.31
27g	29	EP7035 HD	Single	Y	N50	8.00	0.50	4.00	4365	38	1.34	9.50	14.47
27g	29	EP7035 HD	Single	Y	N50	7.00	0.50	4.00	3840	26	0.92	7.43	12.73
25g	18	EP1047 SF	Single	Y	N50	10.70	9.90	106.00	5865	675	23.81	6.37	26.10
25g	18	EP1047 SF	Single	Y	N50	9.70	8.50	82.00	5400	553	19.51	6.71	24.03
25g	18	EP1047 SF	Single	Y	N50	8.70	7.30	64.00	5040	474	16.72	7.46	22.43
25g	18	EP1047 SF	Single	Y	N50	7.70	6.30	49.00	4635	400	14.11	8.25	20.63
25g	18	EP1047 SF	Single	Y	N50	6.80	5.20	35.00	4230	333	11.75	9.42	18.83
25g	18	EP1060 HD	Single	Y	N50	10.70	8.40	90.00	6450	612	21.59	6.81	36.65
25g	18	EP1060 HD	Single	Y	N50	9.70	7.30	71.00	6045	523	18.45	7.39	34.35
25g	18	EP1060 HD	Single	Y	N50	8.70	6.30	55.00	5610	459	16.19	8.37	31.87
25g	18	EP1060 HD	Single	Y	N50	7.80	5.60	44.00	5160	389	13.72	8.91	29.32
25g	18	EP1060 HD	Single	Y	N50	6.80	4.40	30.00	4710	326	11.50	10.90	26.76
25g	18	EP0947 SF	Single	Y	N50	10.70	6.90	74.00	7230	536	18.91	7.26	32.18
25g	18	EP0947 SF	Single	Y	N50	9.70	6.00	58.00	6615	460	16.23	7.90	29.44
25g	18	EP0947 SF	Single	Y	N50	8.80	5.10	45.00	6090	380	13.40	8.47	27.11
25g	18	EP0947 SF	Single	Y	N50	7.80	4.50	35.00	5550	327	11.53	9.32	24.70
25g	18	EP0947 SF	Single	Y	N50	6.80	3.80	26.00	5025	272	9.59	10.53	22.37
25g	18	EP9050 HD	Single	Y	N50	10.70	6.70	72.00	7245	543	19.15	7.57	34.30
25g	18	EP9050 HD	Single	Y	N50	9.70	5.80	56.00	6780	472	16.65	8.39	32.10
25g	18	EP9050 HD	Single	Y	N50	8.80	5.00	44.00	6240	394	13.90	8.95	29.55



KH-278 Outrunner Motor Performance Database

Please note that we provide the following database for your reference only. We make no warrantee that the data contained within is valid. Use the information below at your own risk.

Magnet Wire	Turns	Propeller	Strand	Config.	NdFeB Magnet	Volt	Amp	Watt	RPM	Thrust (g)	Thrust (oz)	g/W	Pitch speed (mph)
25g	18	EP9050 HD	Single	Y	N50	7.80	4.30	34.00	5685	330	11.64	9.84	26.92
25g	18	EP9050 HD	Single	Y	N50	6.80	3.50	24.00	5130	265	9.35	11.13	24.29
25g	18	EP8043 SF	Single	Y	N50	10.80	5.20	56.00	7875	430	15.17	7.66	32.07
25g	18	EP8043 SF	Single	Y	N50	9.80	4.60	45.00	7230	374	13.19	8.30	29.44
25g	18	EP8043 SF	Single	Y	N50	8.80	3.90	34.00	6675	309	10.90	9.00	27.18
25g	18	EP8043 SF	Single	Y	N50	7.80	3.30	26.00	6030	250	8.82	9.71	24.55
25g	18	EP8043 SF	Single	Y	N50	6.80	2.80	19.00	5415	203	7.16	10.66	22.05
25g	18	EP7035 HD	Single	Y	N50	10.80	2.20	24.00	9150	183	6.46	7.70	30.33
25g	18	EP7035 HD	Single	Y	N50	9.80	1.90	19.00	8340	154	5.43	8.27	27.64
25g	18	EP7035 HD	Single	Y	N50	8.80	1.60	14.00	7620	122	4.30	8.66	25.26
25g	18	EP7035 HD	Single	Y	N50	7.80	1.40	11.00	6840	98	3.46	8.97	22.67
25g	18	EP7035 HD	Single	Y	N50	6.80	1.20	8.00	6030	72	2.54	8.82	19.99