

Enzo Hobie 33 MOD 8975

Spinnaker	GPH: 0.887 / 597.5	IR#: 0.882 / 607.6	PHRF BM: 71.4
Non-Spin	GPH: 0.822 / 644.4	IR#: 0.847 / 632.9	PHRF BM: 96.7

Class: Hobie 33 MOD Configuration: Sail Number: 8975 Year Built: 1984 Builder: HOBIE CAT Owner(s): Campbell, Charles	
Certificate #: EZ11957 Valid Year: 2024 Type: New Cert Issue Date: 2024-05-20 Exp.Date: 2024-12-31 Offsets_file: US17666-USA8975_leg.off Cert Group: ORR-Ez SOCAL Comment:	
Rig Type: Sloop Forestay: Fractional Keel Type: Fin with Bulb Prop Type: None	
LOA: 32.59 ft LWL: 31.00 ft Rated Length: 30.72 ft Beam Max: 8.04 ft Draft: 5.33 ft Disp Empty: 4211 lbs Disp Sailing: 5487 lbs Crew: 1200 lbs Water Ballast: 0 lbs Wetted Area: 186.3 ft² LPS: 116.2 ° RM20: 271.6 ft-lbs Stab Index: 115 °	

Spinnaker:	Asymmetrical tacked centerline on bow, sprit or prod
Genoa/Jib Leech:	No Roach - Leech is straight
Large Roach Headsail:	No
Jib Furler:	No
Main Roller Furling:	No

Rig Dimensions	Mainsail Meas.	Jib/Genoa Meas.	Asymmetric Spin. Meas.
IG: 31.88 ft	HB: 0.42 ft	LP: 18.92 ft	ASLU: 45.00 ft
ISP: 39.67 ft	MGT: 2.83 ft	LPG %: 152.3 %	ASLE: 37.17 ft
J: 12.42 ft	MGU: 5.08 ft	J Luff: 32.92 ft	AMG: 27.75 ft
P: 35.25 ft	MGM: 8.58 ft	J Leech: 29.05 ft	ASF: 29.00 ft
E: 12.67 ft	MGL: 11.08 ft	Area: 311.4 ft²	Area: 958.6 ft²
TPS: 16.58 ft	Area: 283.2 ft²		

Spinnaker

Polar Time Allowances

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	47.1	46.1	44.8	42.0	40.1	38.3	38.2	38.6
Beat VMG	1,504.01	1,081.76	880.78	794.46	751.16	714.56	702.04	700.14
52°	934.34	682.31	565.69	528.32	509.77	492.33	483.72	480.92
60°	830.51	621.02	530.27	501.23	485.06	468.44	459.52	455.88
75°	744.86	566.94	495.40	469.45	453.27	429.24	414.87	405.92
90°	693.31	535.70	477.74	446.96	425.08	394.49	374.13	359.64
110°	692.23	528.30	463.30	428.92	402.50	358.76	328.77	311.37
120°	721.88	543.87	468.92	426.64	397.48	347.28	313.29	293.29
135°	891.59	636.09	520.87	471.52	431.82	351.75	298.35	272.18
150°	1,091.97	779.05	628.38	550.65	495.33	419.47	339.51	276.44
165°	1,217.94	868.92	700.86	614.17	550.74	464.74	378.67	308.33
Run VMG	1,260.90	899.57	725.59	635.84	570.17	481.14	392.03	319.20
Opt Run Angle	131.3	134.6	139.5	146.3	154.0	157.7	141.0	145.6

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.887	597.5
IR#	0.882	607.6

Performance Metrics

SA/D Dnwind:	63.880
SA/D Average:	47.37
SA/D Upwind:	30.860
D/Length:	84.5
Ave Perf Screen:	56.100
DnWind Perf Screen:	75.6

PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,134.9	815.1	662.6	582.2	534.1	479.4	445.6	423.2
W50/L50	1,409.7	1,010.7	819.9	724.9	669.0	603.1	552.4	514.7
W60/L40	1,434.4	1,029.4	836.0	741.3	687.4	626.9	583.8	553.2
MOSTLY WW	1,552.1	1,110.5	898.7	789.5	728.1	671.3	647.4	636.9
MOSTLY LW	1,193.8	849.0	682.4	590.0	530.6	452.8	395.4	351.2
MOSTLY REACH	1,029.3	742.8	607.3	536.7	494.2	445.0	414.8	397.1

Non-Spinnaker

Polar Time Allowances

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	47.1	46.1	44.8	42.0	40.1	38.3	38.2	38.6
Beat VMG	1,504.01	1,081.76	880.78	794.46	751.16	714.56	702.04	700.14
52°	934.34	682.31	565.69	528.32	509.77	492.33	483.72	480.92
60°	830.51	621.02	530.27	501.23	485.06	468.44	459.52	455.88
75°	744.86	566.94	495.40	469.45	453.27	434.51	423.25	416.22
90°	737.15	559.70	487.50	452.11	433.41	409.94	393.50	380.42
110°	820.63	610.24	517.41	473.77	439.45	387.24	362.12	341.29
120°	959.92	688.72	559.15	504.63	467.45	405.60	351.33	329.21
135°	1,324.45	904.00	694.55	581.56	519.91	446.54	385.90	326.61
150°	1,654.79	1,094.76	814.83	666.81	570.44	474.26	412.02	351.34
165°	1,695.15	1,137.23	858.31	696.24	590.90	480.25	413.05	350.83
Run VMG	1,721.58	1,154.18	870.53	705.40	598.17	485.40	417.70	354.85
Opt Run Angle	172.1	172.2	172.2	172.2	172.2	172.5	171.9	171.0

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.822	644.4
IR#	0.847	632.9

Performance Metrics

SA/D:	30.86
D/Length:	84.5
Perf Screen:	36.5

PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,282.1	906.3	723.5	625.3	566.5	504.2	469.9	445.3
W50/L50	1,630.5	1,135.4	891.2	760.8	684.1	606.4	565.1	532.4
W60/L40	1,610.4	1,129.2	893.2	770.2	699.5	629.5	593.9	567.3
MOSTLY WW	1,592.0	1,134.2	913.4	798.5	733.7	674.5	651.6	641.8
MOSTLY LW	1,465.7	1,012.0	787.1	660.2	579.2	483.5	425.1	384.3
MOSTLY REACH	1,167.0	830.2	667.4	580.8	529.2	473.8	441.7	416.9

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Spinnaker

Standard 5 Winds

	TOT (Spin)					TOD (Spin)				
	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	0.459	0.598	0.758	0.911	1.158	1,134.9	870.9	686.6	571.4	449.4
W50/L50	0.450	0.588	0.745	0.891	1.140	1,409.8	1,080.1	851.8	712.4	556.7
W60/L40	0.452	0.589	0.746	0.887	1.102	1,434.4	1,100.0	868.9	730.5	588.0
MOSTLY WW	0.443	0.579	0.737	0.882	1.054	1,552.1	1,187.1	932.9	779.0	651.8
MOSTLY LW	0.443	0.582	0.748	0.922	1.323	1,193.8	908.4	707.2	573.7	399.8
MOSTLY REACH	0.472	0.612	0.772	0.921	1.159	1,029.3	793.1	628.9	527.0	419.0

Standard Single Wind

	TOT (Spin) Single	TOD (Spin) Single
RANDOM LEG	0.887	586.5
W50/L50	0.869	730.0
W60/L40	0.863	750.8
MOSTLY WW	0.851	807.6
MOSTLY LW	0.906	583.4
MOSTLY REACH	0.899	540.1

Legacy 4 Winds

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.424	0.669	0.891	1.072	1,134.9	718.7	539.3	448.4
W50/L50	0.417	0.660	0.872	1.058	1,409.8	891.5	674.7	555.7
W60/L40	0.419	0.661	0.866	1.023	1,434.4	909.1	693.3	586.9
MOSTLY WW	0.405	0.644	0.855	0.967	1,552.1	977.3	736.4	650.7
MOSTLY LW	0.407	0.655	0.907	1.219	1,193.8	742.6	535.7	398.7
MOSTLY REACH	0.438	0.685	0.903	1.078	1,029.3	657.4	498.7	417.9

Non-Spinnaker

Standard 5 Winds

	TOT (Non-Spin)					TOD (Non-Spin)				
	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	0.406	0.536	0.692	0.849	1.100	1,282.1	970.6	751.7	612.6	473.1
W50/L50	0.389	0.521	0.683	0.852	1.117	1,630.5	1,219.0	929.1	745.3	568.0
W60/L40	0.402	0.535	0.696	0.856	1.085	1,610.4	1,210.9	930.9	756.9	596.9
MOSTLY WW	0.432	0.566	0.724	0.873	1.047	1,592.0	1,213.2	948.7	787.4	656.0
MOSTLY LW	0.361	0.486	0.645	0.827	1.227	1,465.7	1,088.3	819.8	639.5	431.0
MOSTLY REACH	0.416	0.547	0.701	0.852	1.093	1,167.0	888.2	692.8	569.7	444.1

Standard Single Wind

	TOT (Non-Spin) Single	TOD (Non-Spin) Single
RANDOM LEG	0.823	632.6
W50/L50	0.820	773.8
W60/L40	0.824	785.9
MOSTLY WW	0.840	817.7
MOSTLY LW	0.804	657.9
MOSTLY REACH	0.827	587.2

Legacy 4 Winds

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.375	0.608	0.838	1.018	1,282.1	790.4	573.4	472.3
W50/L50	0.361	0.600	0.848	1.037	1,630.5	980.7	693.6	567.2
W60/L40	0.373	0.613	0.848	1.007	1,610.4	980.5	708.5	596.2
MOSTLY WW	0.395	0.632	0.848	0.961	1,592.0	995.1	742.5	654.9
MOSTLY LW	0.332	0.560	0.827	1.132	1,465.7	867.8	587.5	429.5
MOSTLY REACH	0.386	0.619	0.842	1.016	1,167.0	727.2	535.2	443.5

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Spinnaker

PHRF Benchmark

71.4

Aligned Ratings are based on the Farr
 40 MH as Scratch Boat.

PHRF Single Wind

RANDOM LEG	66.1
W50/L50	95.3
W60/L40	103.0
MOSTLY WW	120.5
MOSTLY LW	54.6
MOSTLY REACH	54.6

PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	146.1	108.7	81.9	63.8	46.4
W50/L50	202.3	151.5	115.4	92.8	68.8
W60/L40	214.9	161.5	123.4	99.6	77.9
MOSTLY WW	245.5	185.1	142.3	115.0	97.5
MOSTLY LW	132.0	97.4	72.7	54.8	28.8
MOSTLY REACH	122.5	91.1	68.4	52.9	37.4

Non-Spinnaker

PHRF Benchmark

96.7

Aligned Ratings are based on the Farr
 40 MH as Scratch Boat.

PHRF Single Wind

RANDOM LEG	112.2
W50/L50	139.1
W60/L40	138.1
MOSTLY WW	130.6
MOSTLY LW	129.1
MOSTLY REACH	101.7

PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	293.3	208.4	147.0	105.0	70.1
W50/L50	423.0	290.4	192.7	125.7	80.1
W60/L40	390.9	272.4	185.4	126.0	86.8
MOSTLY WW	285.4	211.2	158.1	123.4	101.7
MOSTLY LW	403.9	277.3	185.3	120.6	60.0
MOSTLY REACH	260.2	186.2	132.3	95.6	62.5

