


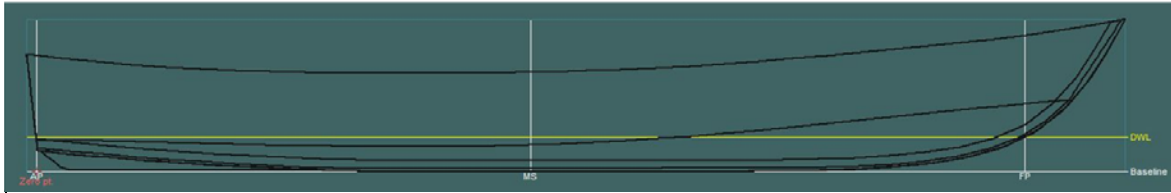
POWERING ANALYSIS OF ROOSTERFISH BOAT-230CP



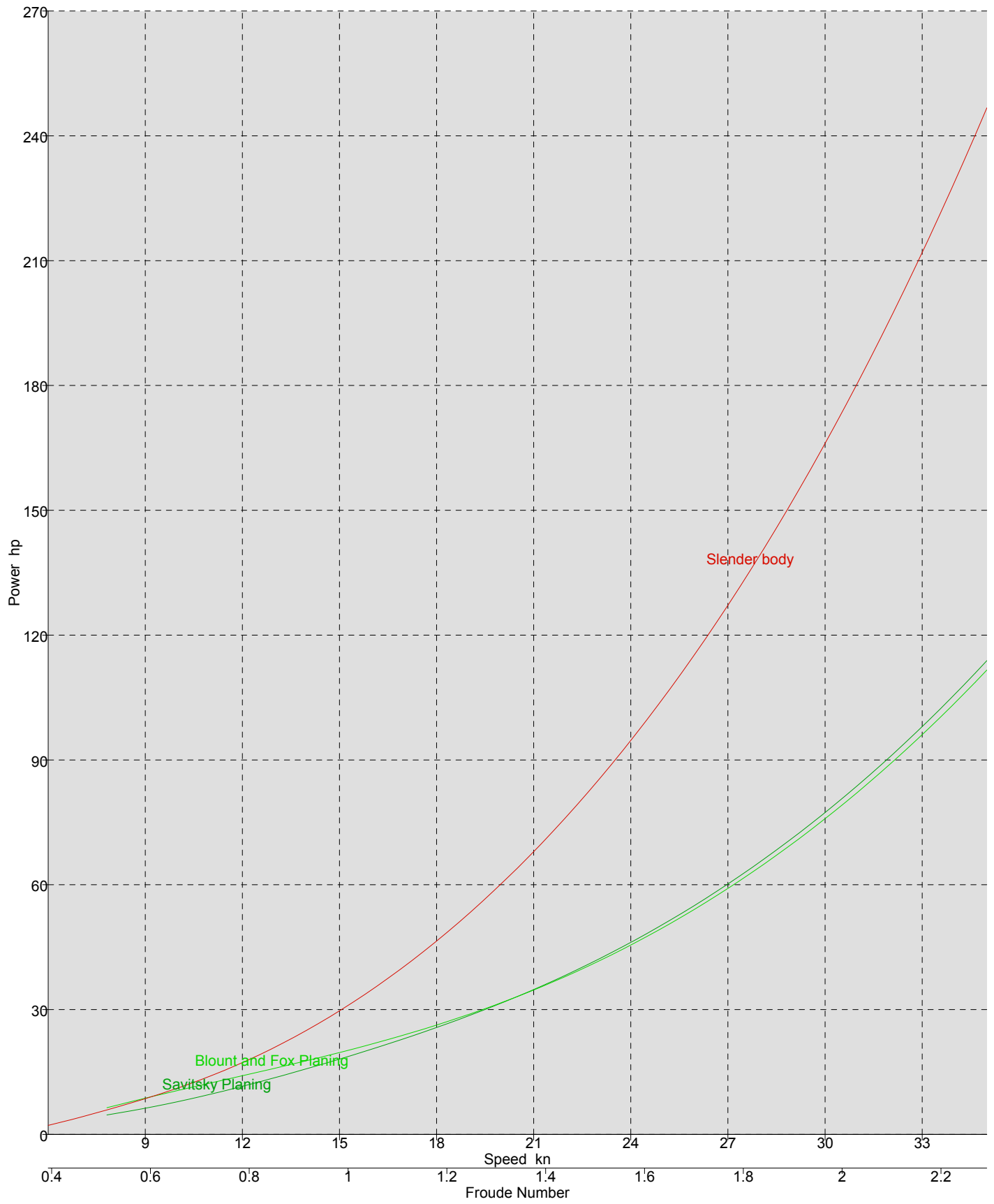
A		
0	24.12.2020	Issued based on 9.5" Draft and 1 x 70 HP Engine (Outboard).
REV.	DATE	REVISION MEMORANDUM

IMO NO	TBD	DATE	24.12.2020
HULL NO	TBD	BOAT TYPE	COASTAL PANGA
CALCULATED BY	BADRUL	NAME OF CALCULATION POWERING ANALYSIS	
CHECKED BY	SHAWN		
 RoosterFish 3D Engineered Boat Kits Green Easy to Build Global Delivery		DOCUMENT NO.	230CP -01.A
		REV:	0

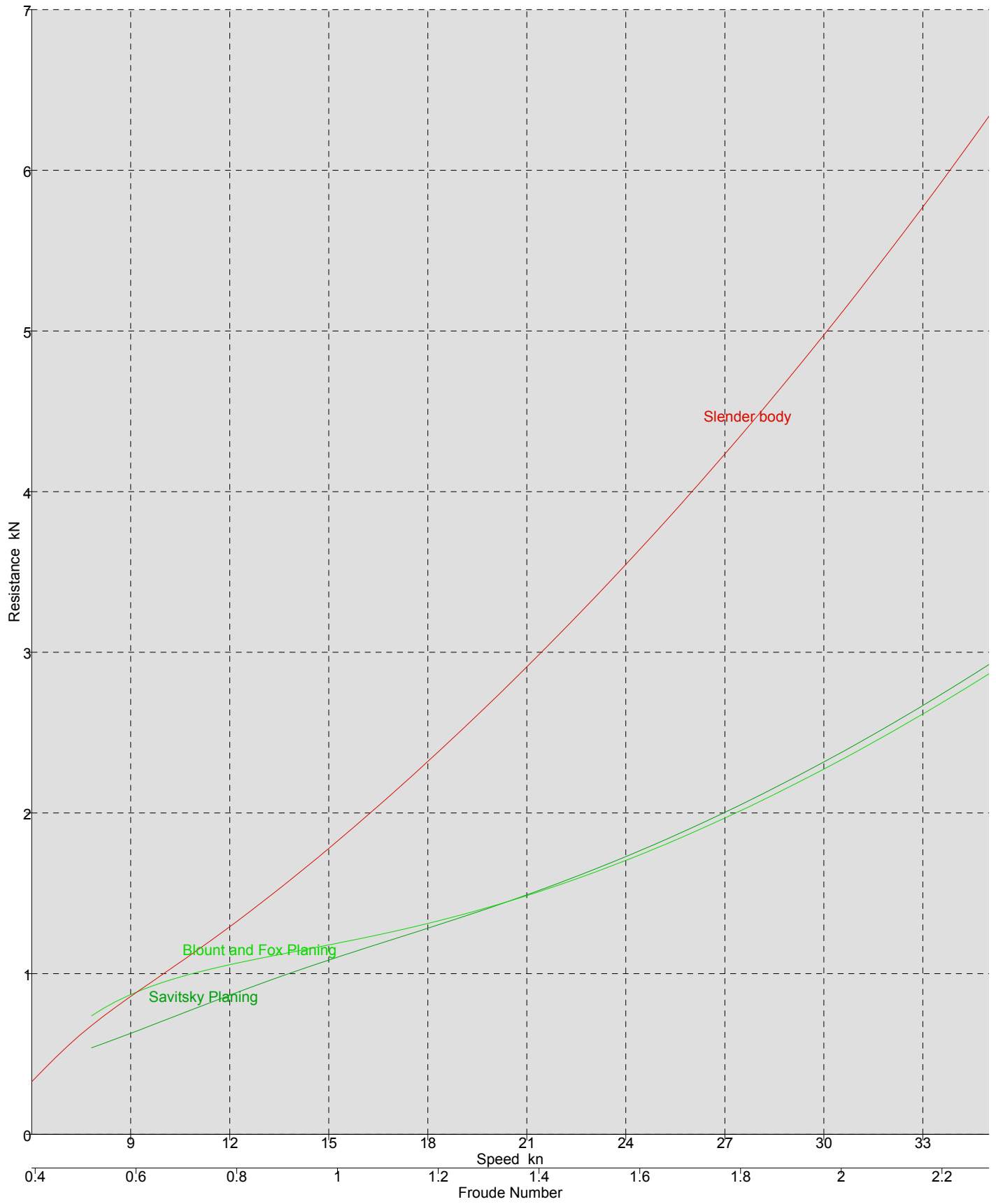
Resistance and Power Prediction from Maxsurf 20 V8i



DATA					
	Item	Value	Units	Savitsky Planing	Blount and Fox Planing
1	LWL	247.53	in	247.53	247.53
2	Beam	64.06	in	64.06	64.06
3	Displacement	1893	lb	--	--
4	Volume (displaced)	51116.15	in ³	50948.56	50948.56
5	Draft Amidships	9.5	in		
6	Wetted area	15487.57	in ²	--	--
7	Prismatic coeff. (Cp)	0.594		--	--
8	Block coeff. (Cb)	0.34			
9	Waterpl. area coeff. (Cwp)	0.713		--	--
10	1/2 angle of entrance	6.9	deg.	--	--
11	LCG from midships(+ve for'd)	-19.81	in	-19.81	-19.81
12	Transom area	0.02	in ²	--	--
13	Transom wl beam	47.45	in	--	--
14	Transom draft	0	in	--	--
15	Max sectional area	346.57	in ²	--	--
16	Bulb transverse area	0	in ²	--	--
17	Bulb height from keel	0	in	--	--
18	Draft at FP	9.5	in	--	--
19	Deadrise at 50% LWL	12.8	deg.	12.8	12.8
20	Kinematic viscosity	0.001841884	in ² /s		
21	Water Density	0.04	lb/in ³		
22	KB	6.73	in		
23	BMt	58.04	in		
24	BML	725.05	in		
25	GMt corrected	64.76	in		
26	GML	731.78	in		
27	KMt	64.76	in		
28	KML	731.78	in		
29	Immersion (TPI)	0.188	Long Ton/in		



Graph View



Graph View

Resistance and Power Prediction from Maxsurf 20 V8i

RESULTS							
	Speed (kn)	Froude No. LWL	Froude No. Vol.	Savitsky Planing resist. (kN)	Savitsky Planing Power (HP)	Blount and Fox Planing resist. (kN)	Blount and Fox Planing Power (HP)
1	7	0.459	1.185	--	--	--	--
2	7.7	0.504	1.304	--	--	--	--
3	8.4	0.55	1.422	0.6	5.446	0.8	7.571
4	9.1	0.596	1.541	0.6	6.447	0.9	8.903
5	9.8	0.642	1.659	0.7	7.545	0.9	10.188
6	10.5	0.688	1.778	0.7	8.735	1	11.444
7	11.2	0.734	1.896	0.8	10.011	1	12.684
8	11.9	0.78	2.015	0.9	11.365	1.1	13.923
9	12.6	0.825	2.133	0.9	12.789	1.1	15.173
10	13.3	0.871	2.252	1	14.274	1.1	16.443
11	14	0.917	2.37	1	15.814	1.1	17.745
12	14.7	0.963	2.489	1.1	17.405	1.2	19.087
13	15.4	1.009	2.607	1.1	19.049	1.2	20.481
14	16.1	1.055	2.726	1.2	20.749	1.2	21.937
15	16.8	1.101	2.844	1.2	22.509	1.3	23.466
16	17.5	1.147	2.963	1.2	24.339	1.3	25.079
17	18.2	1.192	3.081	1.3	26.247	1.3	26.786
18	18.9	1.238	3.2	1.3	28.242	1.4	28.595
19	19.6	1.284	3.318	1.4	30.332	1.4	30.514
20	20.3	1.33	3.437	1.4	32.526	1.4	32.552
21	21	1.376	3.555	1.5	34.833	1.5	34.714
22	21.7	1.422	3.674	1.5	37.26	1.5	37.007
23	22.4	1.468	3.792	1.6	39.814	1.6	39.436
24	23.1	1.513	3.911	1.7	42.501	1.6	42.007
25	23.8	1.559	4.029	1.7	45.329	1.7	44.724
26	24.5	1.605	4.148	1.8	48.303	1.7	47.592
27	25.2	1.651	4.266	1.8	51.429	1.8	50.616
28	25.9	1.697	4.385	1.9	54.712	1.9	53.799
29	26.6	1.743	4.503	2	58.158	1.9	57.147
30	27.3	1.789	4.622	2	61.771	2	60.664
31	28	1.834	4.74	2.1	65.556	2.1	64.353
32	28.7	1.88	4.859	2.2	69.518	2.1	68.218
33	29.4	1.926	4.977	2.3	73.662	2.2	72.264
34	30.1	1.972	5.096	2.3	77.992	2.3	76.495
35	30.8	2.018	5.214	2.4	82.512	2.4	80.915
36	31.5	2.064	5.333	2.5	87.227	2.4	85.527
37	32.2	2.11	5.451	2.6	92.141	2.5	90.335
38	32.9	2.155	5.57	2.7	97.258	2.6	95.344
39	33.6	2.201	5.688	2.7	102.582	2.7	100.556
40	34.3	2.247	5.807	2.8	108.118	2.8	105.977
41	35	2.293	5.925	2.9	113.87	2.9	111.61

FOR ENGINE POWER OF 70 HP, THE BOAT SPEED WILL BE APPROX. 28 KNOTS