

Professional Propulsion Systems

SYSTEM SPECIFICATIONS

ENGINE



Name:	996 HS
Manufacturer:	ZANZOTTERA ENGINES
Type:	4-cylinder
Displacement:	996 cm³
Max. performance:	82 HP at 6000 RPM
Weight:	29.74 Kg
Max RPM:	6200 RPM
Running direction:	Clockwise

PROPELLER



Name:	40x34.3 2B CW (Direction guide)
Manufacturer:	Mejzlik
Diameter:	40 in
Pitch:	34.3 in
Mass:	620 g
Contact:	info@mejzlik.eu

ANALYSIS



Need expert guidance on analyzing your flight performance?

Our team provides a comprehensive analysis of RPM calculations, motor and propeller efficiency, including customized propeller selection recommendations to ensure your system achieves maximum efficiency.

Please reach out to us at info@mejzlik.eu or idanbi@zanzotteraengines.com

ID: **0152**



PERFORMANCE OF THE SYSTEM

Flight velocity

0 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	41	2.75	288	0
1400	82	5.41	793	0
1800	137	9	1696	0
2200	210	13.78	3174	0
2700	325	21.19	5991	0
3100	432	28.84	9361	0
3500	562	37.79	13850	0
3900	712	48.21	19689	0
4400	937	63.87	29429	0

Flight velocity

10 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	23	2.87	300	78
1400	62	6.38	935	66
1800	115	10.74	2024	57
2200	185	16.08	3705	50
2700	295	24.34	6882	43
3100	402	32.36	10506	38
3500	528	41.82	15328	34
3900	676	52.89	21599	31
4400	893	69.39	31972	28

PERFORMANCE OF THE SYSTEM

Flight velocity

20 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1200	1	0.53	66	20
1600	40	5.64	945	84
2000	96	11.66	2441	79
2400	169	18.57	4666	72
2800	258	26.46	7760	66
3200	365	35.56	11915	61
3500	457	43.26	15857	58
3600	491	46.02	17350	57
4000	637	58.12	24345	52
4400	806	72.02	33185	49

Flight velocity

30 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1900	14	2.84	564	72
2200	57	8.74	2013	85
2500	110	15.07	3944	84
2800	174	21.97	6442	81
3100	248	29.52	9582	78
3400	332	37.73	13432	74
3500	363	40.63	14893	73
3700	428	46.73	18105	71
4000	535	56.56	23692	68
4400	698	71.29	32850	64

PERFORMANCE OF THE SYSTEM

Flight velocity

40 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
2500	19	4.15	1086	69
2700	55	9.43	2666	83
3000	119	17.77	5584	85
3200	167	23.55	7890	85
3400	220	29.63	10551	83
3500	249	32.82	12027	83
3700	310	39.44	15282	81
3900	375	46.37	18940	79
4100	447	53.77	23085	77
4400	566	65.73	30287	75

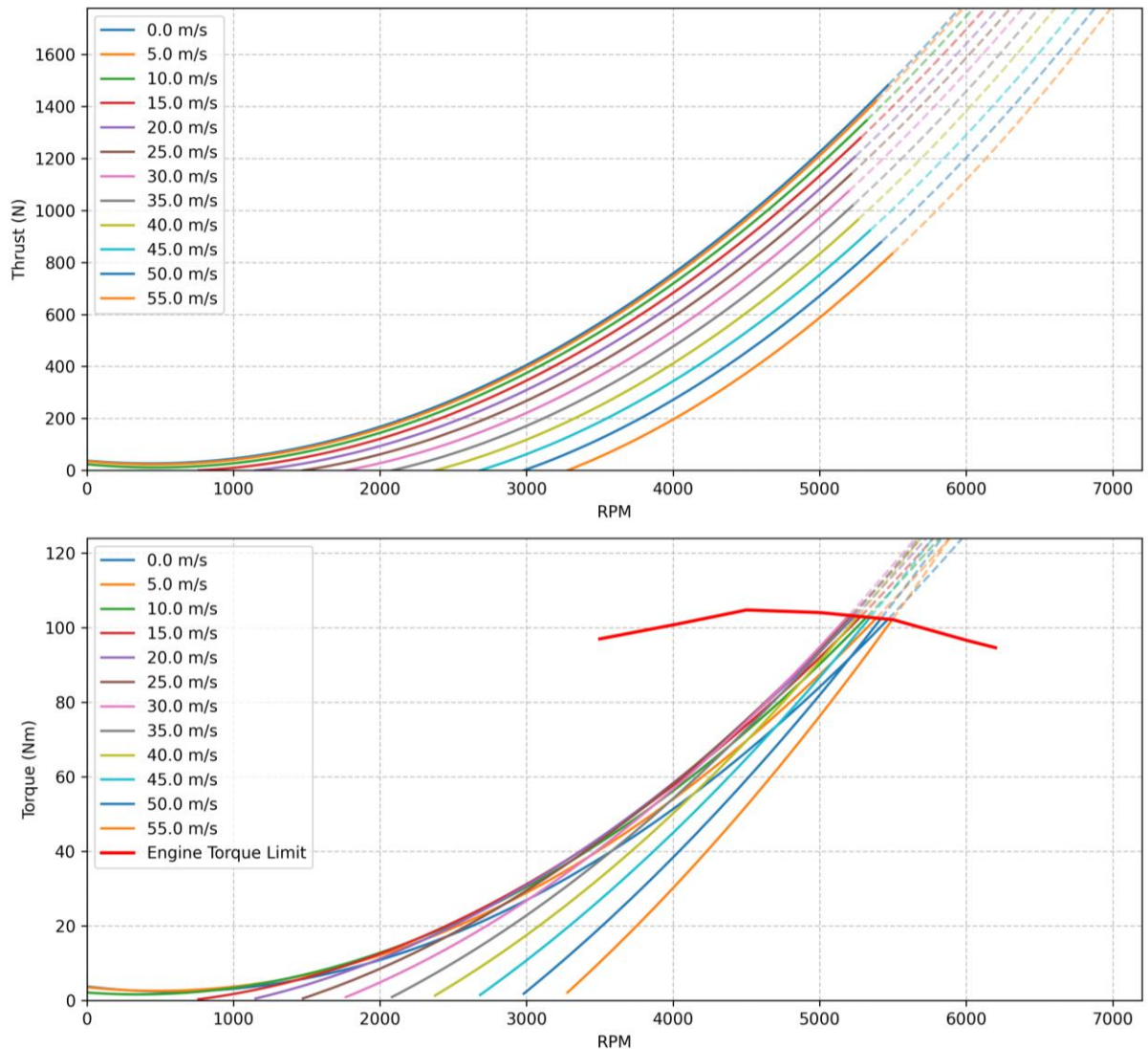
Flight velocity

50 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
3100	25	5.68	1845	66
3300	70	12.45	4302	82
3400	95	15.92	5670	84
3500	121	19.48	7138	85
3600	149	23.11	8710	85
3700	177	26.81	10388	85
3900	239	34.45	14072	85
4000	271	38.38	16075	84
4200	341	46.44	20427	83
4400	416	54.92	25308	82

PERFORMANCE OF THE SYSTEM

996HS + Mejlík 40x34.3 2B Performance in flight



NOTE



Data presented in this product sheet are a combination of measurements of engine performance (RPM, torque), which is complemented with propeller data, simulated in Mejlík's proprietary simulation software. The greyed out values are above engine limit.

Data is valid for 0m ISA. Propeller performance simulation accuracy can diverge at higher tip speeds (above 0.7 Mach). Propeller is structurally safe to operate below Mach 1 tip speed.

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