

Professional Propulsion Systems

SYSTEM SPECIFICATIONS

ENGINE



Name:	101HS
Manufacturer:	ZANZOTTERA ENGINES
Type:	2-cylinder
Displacement:	116 cm³
Max. performance:	8,2 kW at 7000 RPM
Weight:	7,22 Kg
Max RPM:	7000 RPM
Running direction:	Clockwise

PROPELLER



Name:	26.5x16.2 2B CW (Direction guide)
Manufacturer:	Mejzlik
Diameter:	26.5 in
Pitch:	16.2 in
Mass:	192 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

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PERFORMANCE OF THE SYSTEM

Flight velocity

0 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	6	0.27	29	0
1700	19	0.79	141	0
2400	39	1.59	399	0
3100	65	2.68	870	0
3800	100	4.06	1617	0
4500	143	5.86	2761	0
5200	196	8.08	4399	0
5300	204	8.39	4657	0
5900	258	10.7	6613	0
6700	344	14.41	10112	0

Flight velocity

10 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-1	-0.02	-3	—
1700	10	0.78	139	74
2400	30	1.82	458	65
3100	55	3.08	1001	55
3800	89	4.65	1850	48
4500	130	6.57	3096	42
5200	180	8.9	4848	37
5300	189	9.27	5145	37
5900	241	11.71	7235	33
6700	324	15.65	10978	30

PERFORMANCE OF THE SYSTEM

Flight velocity

20 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-4	-0.21	-22	—
1700	-6	-0.21	-37	—
2400	8	0.87	219	71
3100	33	2.61	849	79
3800	66	4.53	1803	73
4500	105	6.66	3140	67
5200	153	9.17	4992	61
5300	161	9.56	5308	61
5900	211	12.14	7502	56
6700	292	16.24	11391	51

Flight velocity

30 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-6	-0.59	-62	—
1700	-10	-0.45	-81	—
2400	-13	-0.39	-97	—
3100	1	0.57	186	23
3800	31	2.91	1158	81
4500	70	5.52	2603	80
5200	117	8.45	4600	76
5300	124	8.89	4933	75
5900	172	11.68	7219	71
6700	248	15.98	11214	66

PERFORMANCE OF THE SYSTEM

Flight velocity

40 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-8	-1.13	-118	—
1700	-13	-1.02	-181	—
2400	-19	-0.8	-202	—
3100	-22	-0.56	-182	—
3800	-9	-0.02	-8	—
4500	24	2.74	1293	75
5200	68	6.04	3292	82
5300	74	6.54	3632	82
5900	121	9.72	6007	80
6700	195	14.55	10209	76

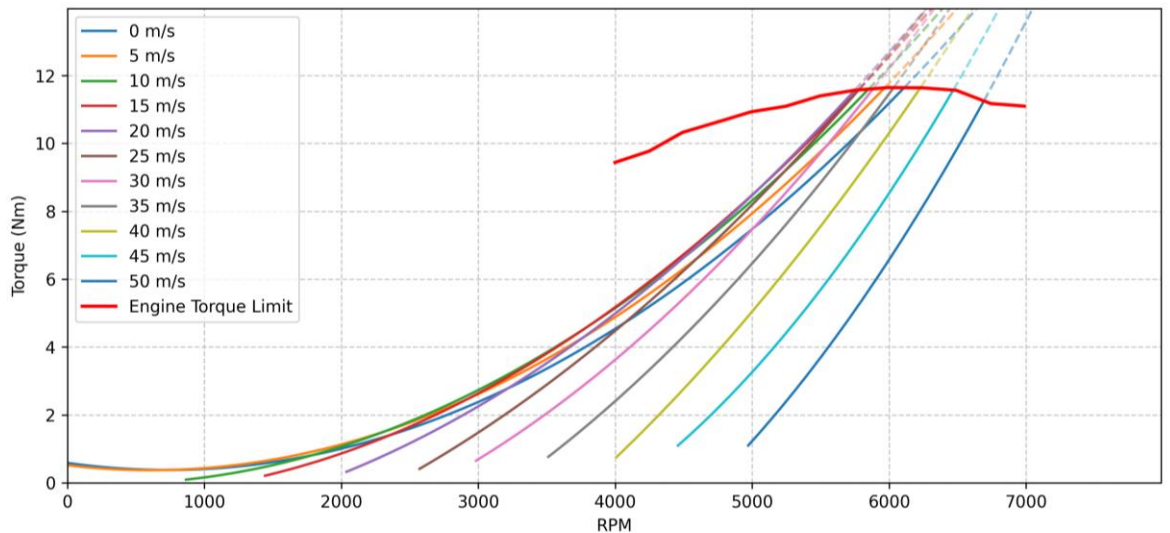
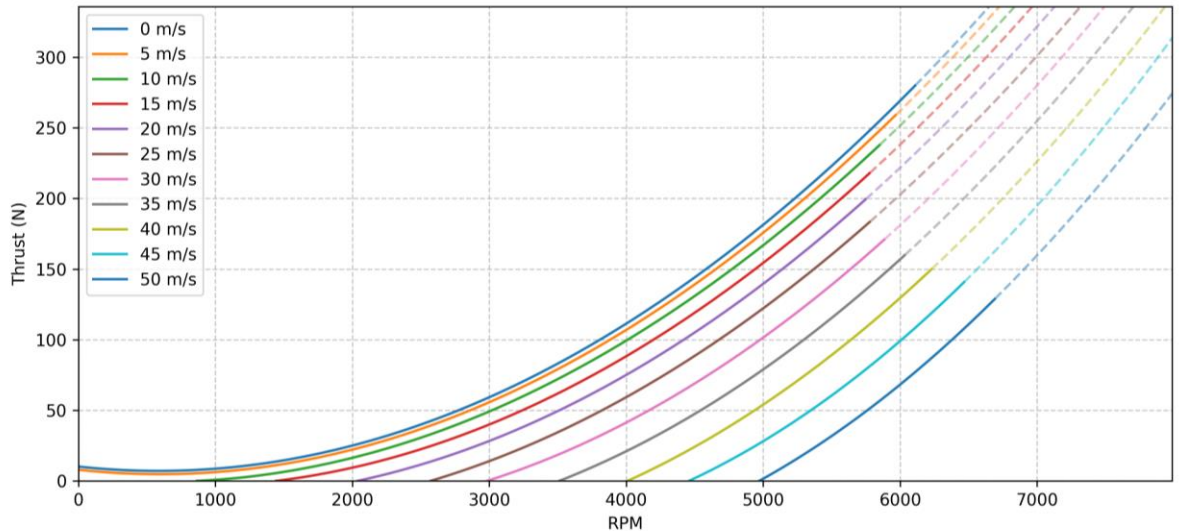
Flight velocity

50 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-11	-1.85	-194	—
1700	-16	-1.73	-308	—
2400	-23	-1.52	-383	—
3100	-31	-1.18	-383	—
3800	-33	-0.83	-332	—
4500	-22	-0.77	-363	—
5200	13	2.08	1131	56
5300	19	2.62	1455	65
5900	61	6.09	3764	81
6700	130	11.28	7913	82

PERFORMANCE OF THE SYSTEM

101HS + Mejlík 26.5x16.2 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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