

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:	29x12 2B S CCW (Direction guide)
Manufacturer:	Mejzlik
Diameter:	29 in
Pitch:	12 in
Mass:	257 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: **0130**



PERFORMANCE OF THE SYSTEM

Flight velocity

0 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	7	0.28	29	0
1600	18	0.74	123	0
2200	36	1.43	329	0
2900	67	2.54	772	0
3500	101	3.72	1362	0
4100	141	5.31	2281	0
4800	197	7.4	3720	0
5400	253	9.63	5443	0
6100	331	12.84	8200	0

Flight velocity

10 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-1	0.1	11	—
1600	5	0.52	87	63
2200	21	1.39	320	66
2900	48	2.68	815	59
3500	78	4.04	1482	53
4100	115	5.67	2434	47
4800	168	7.93	3986	42
5400	221	10.22	5782	38
6100	296	13.47	8603	34

PERFORMANCE OF THE SYSTEM

Flight velocity

20 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-3	-0.03	-3	—
1600	-6	0.19	32	—
2200	-4	0.14	33	—
2900	17	1.53	464	71
3500	42	3.09	1131	75
4100	75	4.89	2098	72
4800	123	7.34	3689	67
5400	174	9.82	5551	63
6100	244	13.19	8428	58

Flight velocity

30 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-5	-0.32	-34	—
1600	-8	-0.08	-13	—
2200	-12	0.25	57	—
2900	-13	0.05	15	—
3500	-1	0.55	203	—
4100	26	2.57	1104	71
4800	68	5.26	2644	77
5400	113	7.88	4456	76
6100	176	11.45	7316	72

PERFORMANCE OF THE SYSTEM

Flight velocity

40 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-7	-0.75	-78	—
1600	-10	-0.51	-85	—
2200	-16	-0.23	-52	—
2900	-23	0.03	10	—
3500	-28	-0.2	-72	—
4100	-27	-1.2	-516	—
4800	5	1.39	697	28
5400	43	4.25	2403	72
6100	100	8.08	5161	77

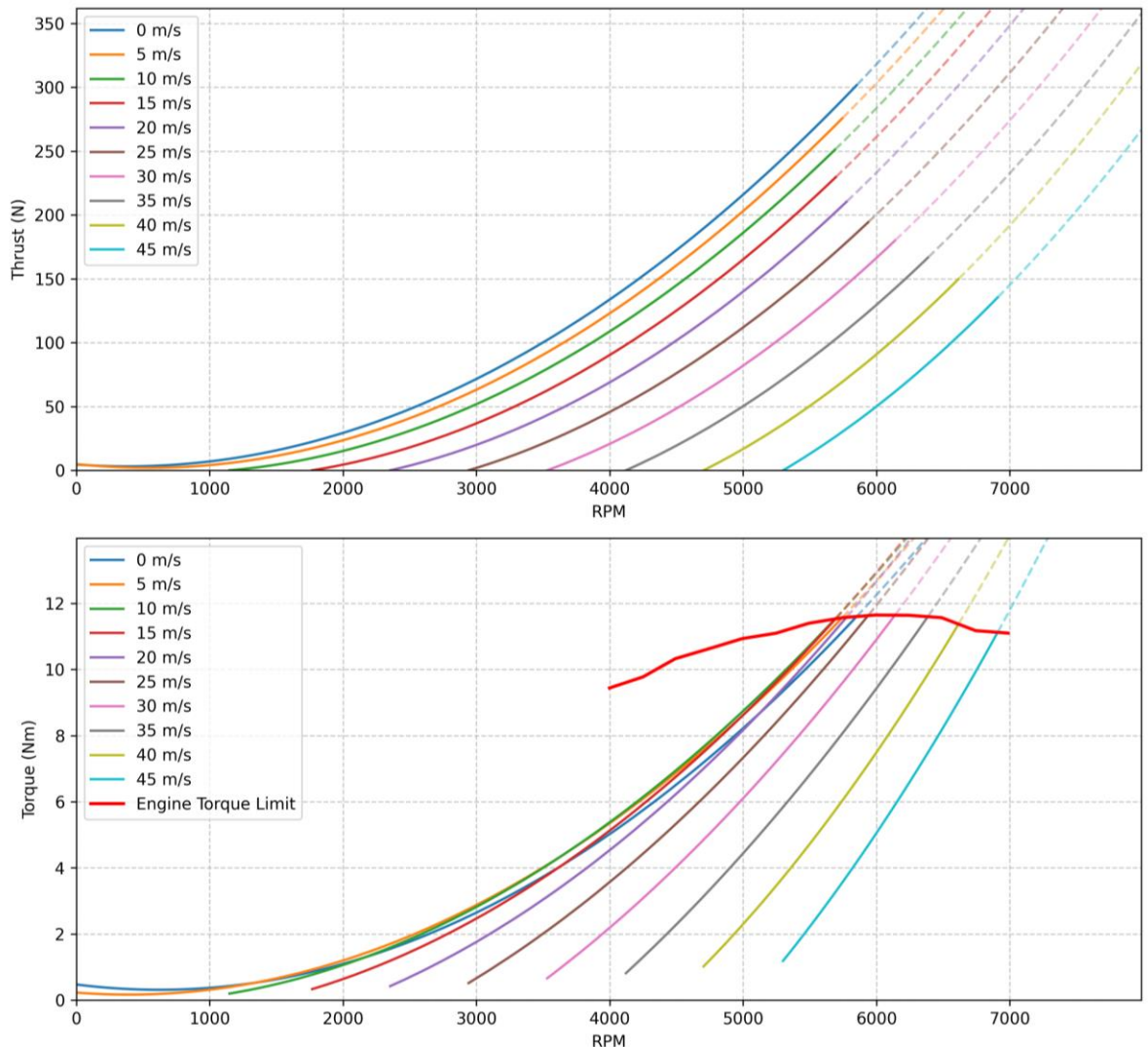
Flight velocity

50 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-9	-1.34	-141	—
1600	-13	-1.17	-197	—
2200	-19	-0.96	-222	—
2900	-28	-0.59	-178	—
3500	-37	-0.32	-118	—
4100	-46	-0.71	-307	—
4800	-53	-2.73	-1370	—
5400	-31	-1.24	-702	—
6100	15	2.74	1748	44

PERFORMANCE OF THE SYSTEM

101HS + Mejlík 29x12 2B S 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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