

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:	29x10 2B EVO CCW (Direction guide)
Manufacturer:	Mejzlik
Diameter:	29 in
Pitch:	10 in
Mass:	255 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: **0129**



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	0.72	120	0
2200	36	1.38	317	0
2900	65	2.43	737	0
3500	97	3.59	1315	0
4100	134	5	2148	0
4800	187	6.96	3498	0
5400	243	8.98	5080	0
6100	314	11.92	7614	0

Flight velocity

10 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-3	-0.04	-5	—
1600	3	0.35	59	53
2200	18	1.14	263	67
2900	43	2.33	709	61
3500	72	3.59	1315	55
4100	107	5.08	2181	49
4800	155	7.14	3589	43
5400	206	9.24	5223	39
6100	274	12.13	7750	35

PERFORMANCE OF THE SYSTEM

Flight velocity

20 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-6	-0.33	-35	—
1600	-11	-0.17	-28	—
2200	-10	-0.12	-27	—
2900	6	0.83	251	48
3500	30	2.24	822	72
4100	60	3.87	1662	72
4800	103	6.06	3045	68
5400	149	8.23	4651	64
6100	212	11.16	7131	59

Flight velocity

30 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-8	-0.91	-95	—
1600	-14	-0.71	-118	—
2200	-21	-0.4	-93	—
2900	-24	-0.35	-107	—
3500	-17	-0.25	-91	—
4100	4	1.05	449	24
4800	41	3.45	1734	71
5400	81	5.81	3283	74
6100	138	8.9	5682	73

PERFORMANCE OF THE SYSTEM

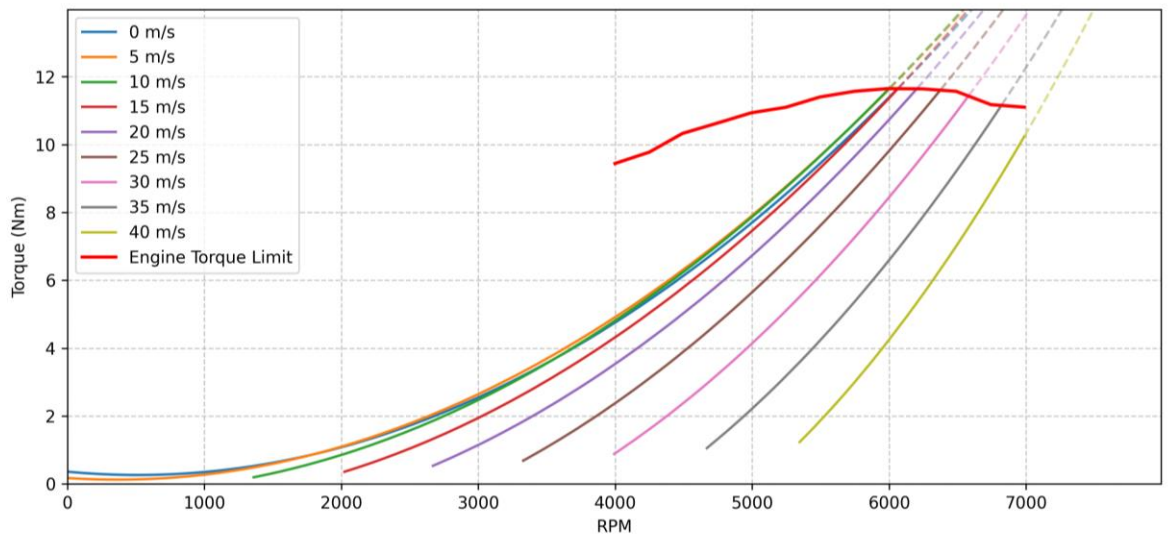
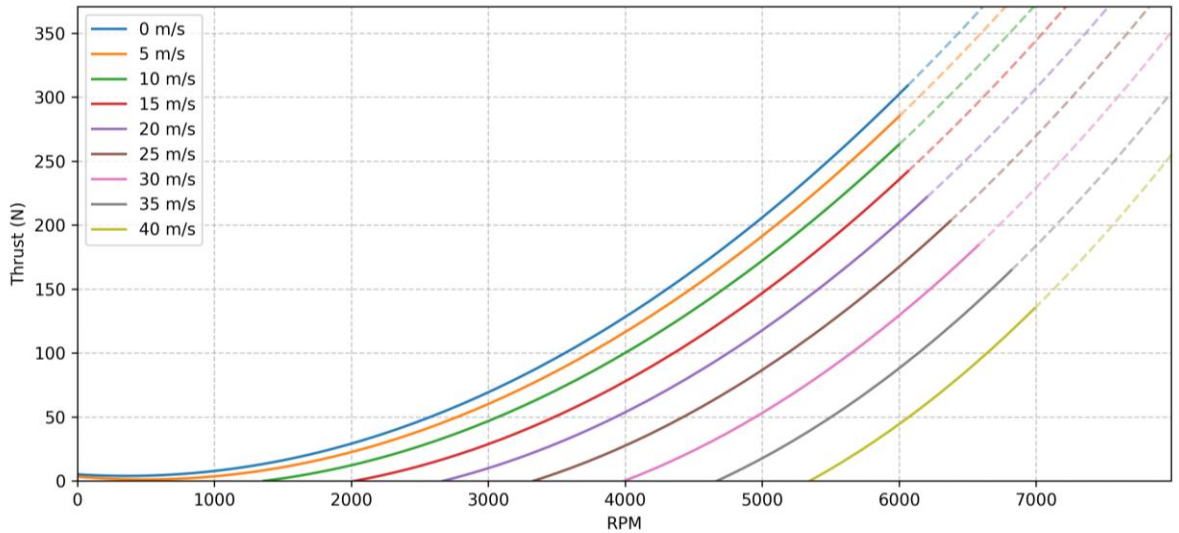
Flight velocity

40 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-11	-1.67	-175	—
1600	-17	-1.51	-254	—
2200	-25	-1.21	-278	—
2900	-37	-0.79	-239	—
3500	-45	-0.84	-309	—
4100	-45	-1.41	-606	—
4800	-28	-0.71	-357	—
5400	3	1.45	821	15
6100	52	4.78	3053	69

PERFORMANCE OF THE SYSTEM

101 HS + Mejlík 29x10 2B EVO 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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