

Professional Propulsion Systems

SYSTEM SPECIFICATIONS

ENGINE



Name:	305 HS
Manufacturer:	ZANZOTTERA ENGINES
Type:	2-cylinder boxer
Displacement:	312 cm³
Max. performance:	29.7 HP at 7000 RPM
Weight:	13 Kg
Max RPM:	7000 RPM
Running direction:	Clockwise

PROPELLER



Name:	32x10 2B LF CCW (Direction guide)
Manufacturer:	Mejzlik
Diameter:	32 in
Pitch:	10 in
Mass:	276 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	10	0.41	43	0
1500	23	0.92	145	0
2100	47	1.88	414	0
2600	74	2.96	806	0
3200	114	4.56	1527	0
3800	162	6.48	2579	0
4300	211	8.51	3831	0
4900	281	11.39	5846	0
5500	362	14.8	8526	0

Flight velocity

10 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-3	0.09	10	—
1500	4	0.54	84	43
2100	25	1.73	381	65
2600	49	2.99	815	61
3200	86	4.76	1595	54
3800	132	6.9	2746	48
4300	178	9.01	4059	44
4900	243	12.02	6166	39
5500	318	15.57	8970	35

PERFORMANCE OF THE SYSTEM

Flight velocity

20 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
2100	-6	0.58	127	—
2600	8	1.38	375	41
3200	38	3.26	1094	70
3800	80	5.67	2257	71
4300	121	7.95	3578	67
4900	180	11.1	5694	63
5500	251	14.8	8527	59

Flight velocity

30 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
2600	-19	0.74	201	—
3200	-8	1.34	450	—
3800	14	2.47	982	44
4300	49	4.8	2161	68
4900	102	8.24	4226	73
5500	167	12.19	7020	72

PERFORMANCE OF THE SYSTEM

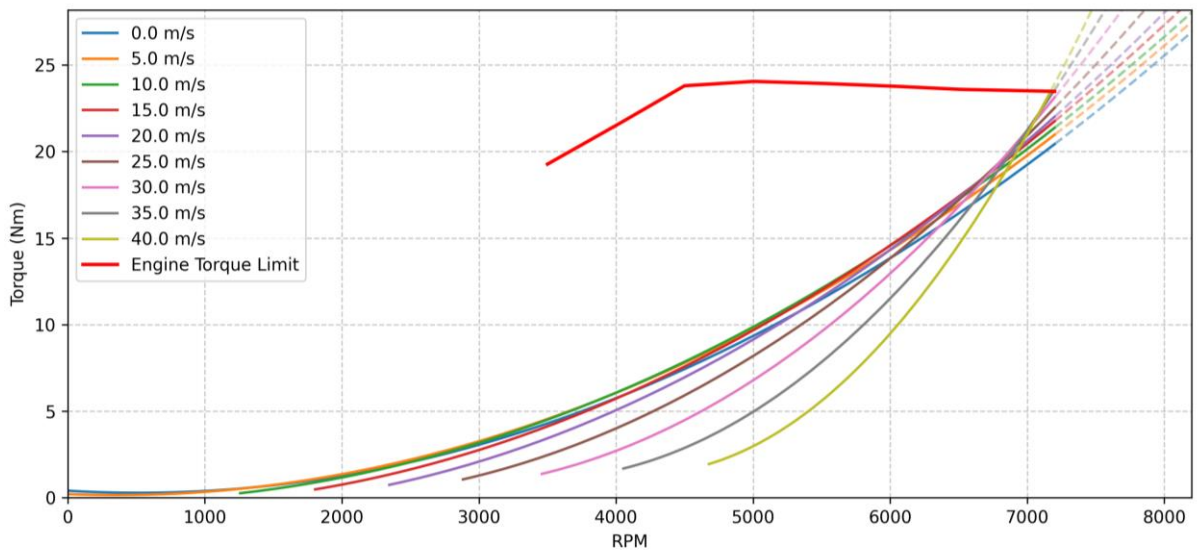
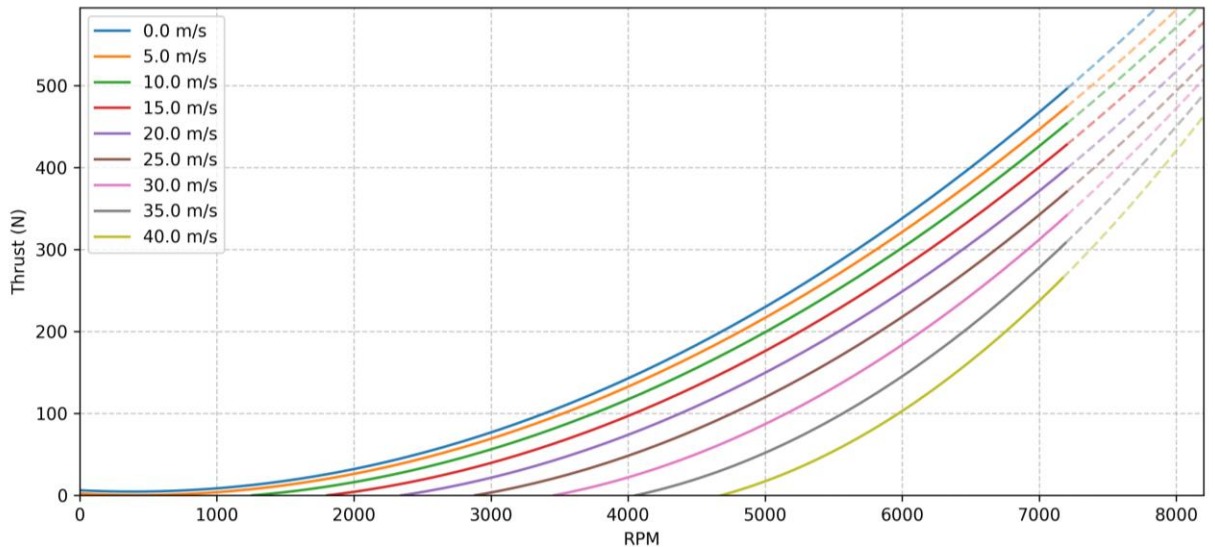
Flight velocity

40 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
3200	-32	1.15	385	—
3500	-32	1.06	390	—
3800	-28	1.21	481	—
4050	-23	1.4	596	—
4300	-16	1.71	770	—
4600	-4	2.28	1099	—
4900	14	3.29	1686	33
5200	39	4.99	2719	58
5500	69	7.15	4120	67

PERFORMANCE OF THE SYSTEM

305HS + Mejlík 32x10 2B LF 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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