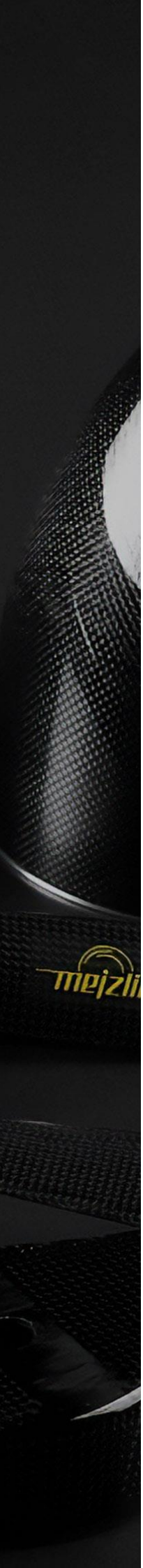

Professional Propulsion Systems

SYSTEM SPECIFICATIONS

ENGINE

Name:	**4201**
Manufacturer:	**HIRTH ENGINES**
Type:	**2-cylinder, two stroke**
Displacement:	**183 cm³**
Max. performance:	**11 kW at 6500 RPM**
Weight:	**5.7 kg**
RPM range:	**1800–6500 RPM**
Running direction:	**Clockwise**

PROPELLER

Name:	**32x12 2B EVO**
Manufacturer:	**Mejzlik**
Diameter:	**32 in**
Pitch:	**12 in**
Mass:	**316 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 **info@hirthengines.com**

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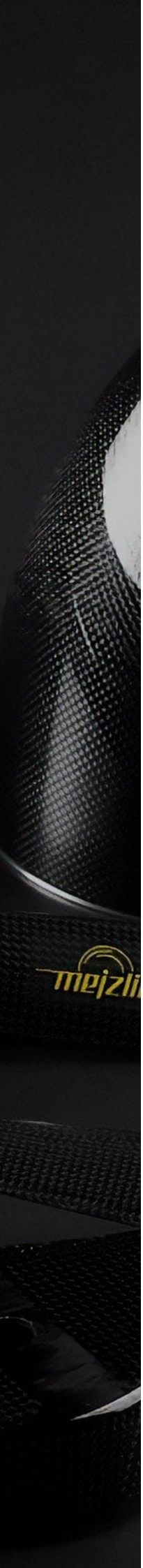
HIRTH ENGINES

mejzlik



PERFORMANCE OF THE SYSTEM

Flight velocity

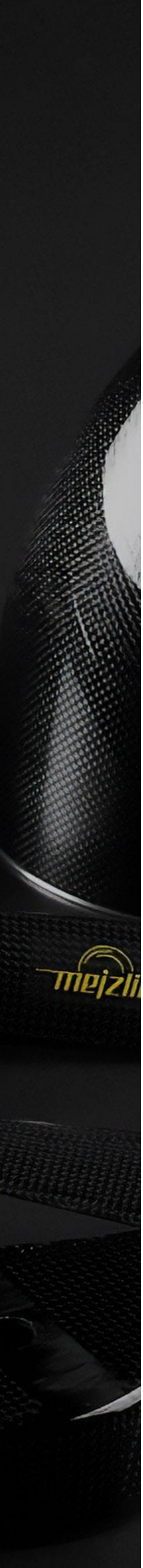
0 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	12	0.54	**57**	**0**
1500	28	1.23	**194**	**0**
2100	57	2.46	**541**	**0**
2600	88	3.84	**1045**	**0**
3200	134	5.93	**1988**	**0**
3800	194	8.51	**3384**	**0**
4300	252	10.94	**4927**	**0**
4900	332	14.60	**7491**	**0**
5500	429	18.94	**10906**	**0**

Flight velocity

10 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1000	-2	0.15	**16**	**—**
1500	9	0.87	**137**	**64**
2100	33	2.34	**514**	**65**
2600	62	3.85	**1050**	**59**
3200	105	6.07	**2035**	**52**
3800	159	8.75	**3481**	**46**
4300	213	11.36	**5117**	**42**
4900	288	15.12	**7760**	**37**
5500	377	19.64	**11313**	**33**



PERFORMANCE OF THE SYSTEM

Flight velocity

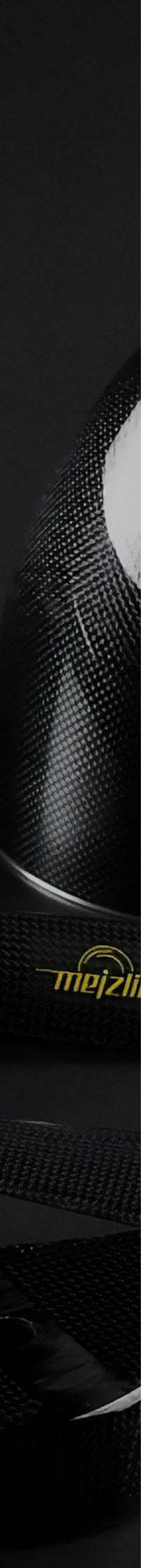
20 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
1500	-10	0.11	**18**	—
2000	-5	0.62	**131**	—
2500	12	1.68	**441**	**53**
3000	41	3.62	**1138**	**71**
3500	78	5.93	**2172**	**71**
4000	122	8.53	**3572**	**68**
4300	153	10.27	**4624**	**66**
4500	175	11.52	**5431**	**65**
5000	237	14.96	**7834**	**61**
5500	309	18.89	**10878**	**57**

Flight velocity

30 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
2300	-19	0.63	**151**	—
2700	-16	1.03	**292**	—
3100	-7	1.49	**483**	—
3500	11	2.50	**917**	**37**
3900	41	4.52	**1844**	**66**
4300	76	6.97	**3138**	**73**
4700	118	9.69	**4770**	**74**
5100	165	12.69	**6779**	**73**
5500	219	16.01	**9219**	**71**



PERFORMANCE OF THE SYSTEM

Flight velocity

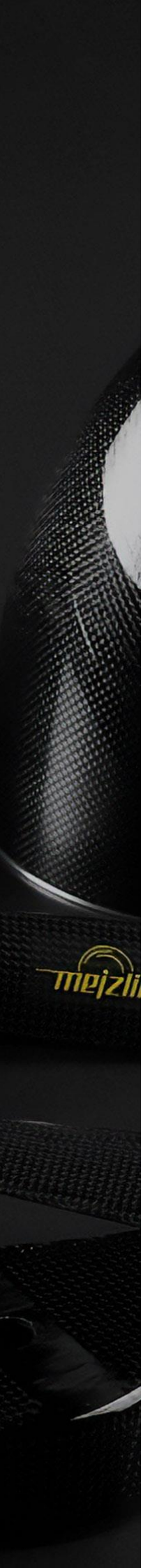
40 m/s

Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
3100	-34	1.09	**355**	—
3400	-32	1.34	**478**	—
3700	-28	1.58	**614**	—
4000	-18	2.14	**896**	—
4300	-5	2.60	**1172**	—
4600	17	3.87	**1864**	**36**
4900	45	5.86	**3006**	**59**
5200	77	8.16	**4441**	**69**
5500	113	10.76	**6199**	**73**

Flight velocity

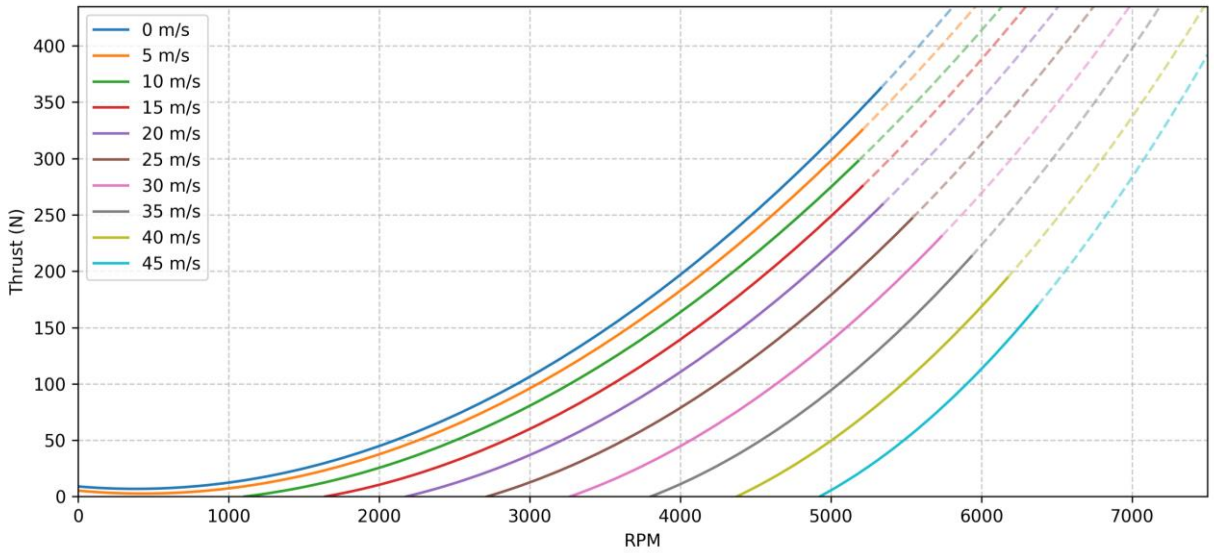
50 m/s

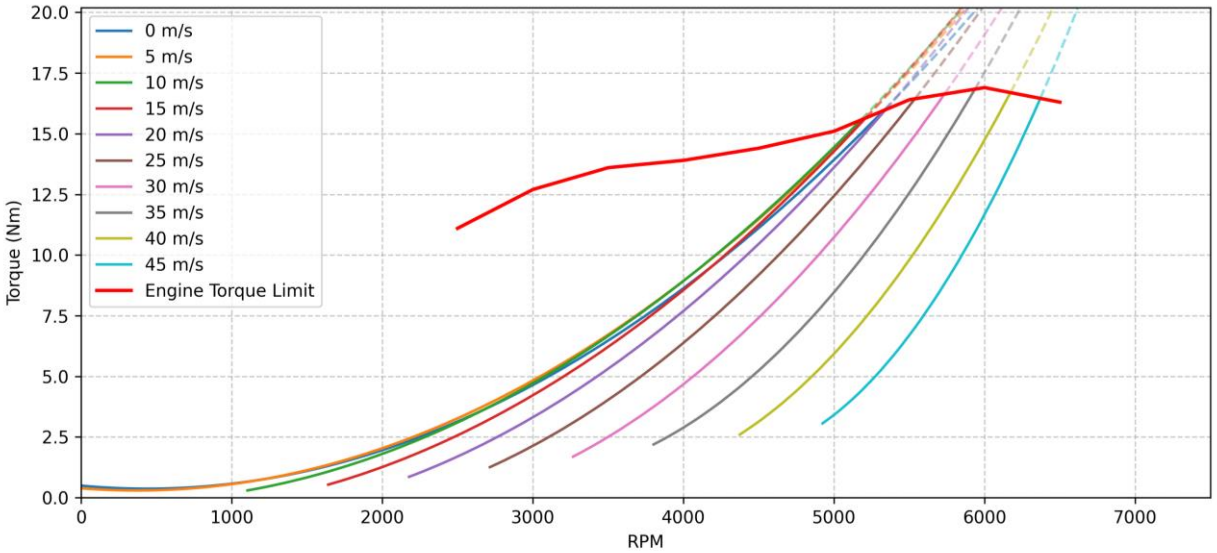
Rotational Speed [RPM]	Thrust [N]	Torque [Nm]	Mechanical Power [W]	Propulsion efficiency [%]
3900	-56	1.41	**575**	—
4100	-55	1.61	**690**	—
4300	-53	1.81	**816**	—
4500	-50	1.99	**937**	—
4700	-44	2.31	**1139**	—
4900	-35	2.70	**1384**	—
5100	-25	3.02	**1614**	—
5300	-13	3.36	**1867**	—
5500	2	4.13	**2381**	**5**



PERFORMANCE OF THE SYSTEM

Hirth 4201 + Mejzlik 32x12 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 Mejzliks 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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