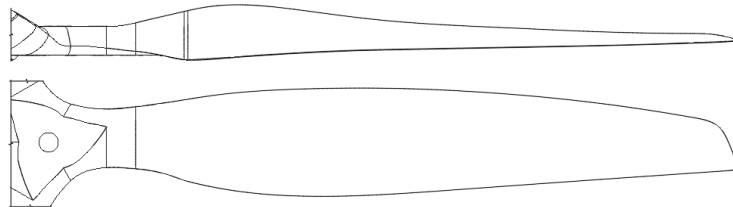


PROPELLER

20x14 3B E L

PN: 520145



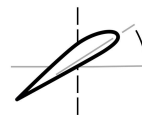
*Illustrative
image only



53 g
Mass



20.0"
Diameter



14.0"
Pitch



Fixed wing

Engine/Motor type: Electric

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]: $53 \pm 10.0\%$

Moment of inertia [kgm^2]¹: $1.71\text{e-}03$

Core diameter [mm]: 23.5 (Drilling guide)

Limit RPM²: 9000

Working temperature [°C]: from -20°C to 60°C

Production method: Wet layup

¹ Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

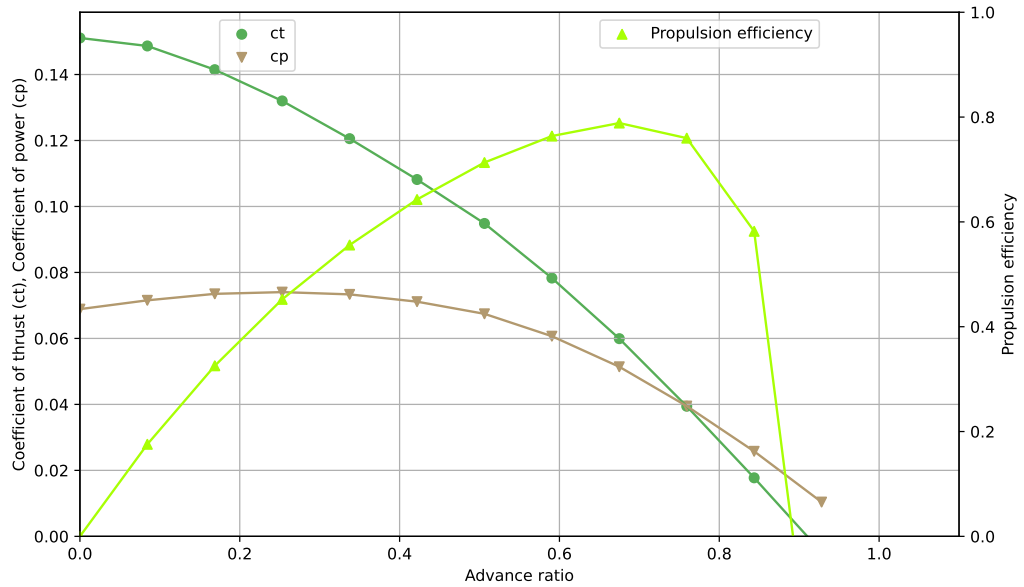
² RPM is limited by tip speed; forward speed reduces the limit.

For more information or custom propeller options, contact info@mejlzlik.eu.

Operation manual: Propeller Maintenance and Repair Manual

Dynamic Performance Data

Simulated data - at 7000 RPM



v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.1511	0.0689	0.0	0.0
5.0	0.1487	0.0715	0.1757	0.0844
10.0	0.1415	0.0735	0.3254	0.1687
15.0	0.132	0.074	0.4522	0.2531
20.0	0.1206	0.0733	0.5559	0.3375
25.0	0.1082	0.0711	0.6428	0.4218
30.0	0.0949	0.0675	0.7133	0.5062
35.0	0.0783	0.0607	0.7638	0.5906
40.0	0.0599	0.0514	0.7886	0.6749
45.0	0.0394	0.0395	0.7598	0.7593
50.0	0.0177	0.0258	0.582	0.8436
55.0	-0.0048	0.0104	-0.4269	0.928

$$C_T = \frac{T}{\rho R P S^2 D^4}$$

$$C_P = \frac{P_{mech}}{\rho R P S^3 D^5}$$

$$\eta = \frac{C_T \cdot J}{C_P}$$

$$J = \frac{v_{inf}}{n \cdot D}$$