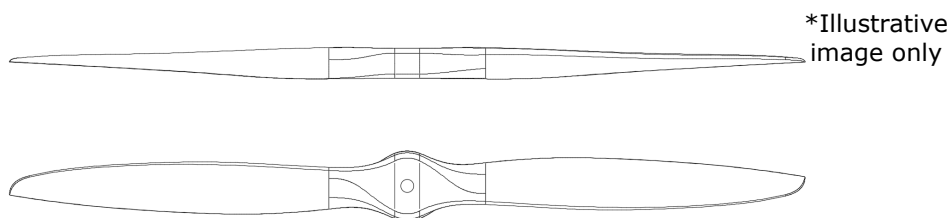


PROPELLER

16x10 2B GAS

PN: 216100



86 g
Mass



16.0"
Diameter



10.0"
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]: $86 \pm 10.0\%$

Moment of inertia [kgm^2]¹: $1.18\text{e-}03$

Core diameter [mm]: - (Drilling guide)

Limit RPM²: 11200

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

Production method: Wet layup

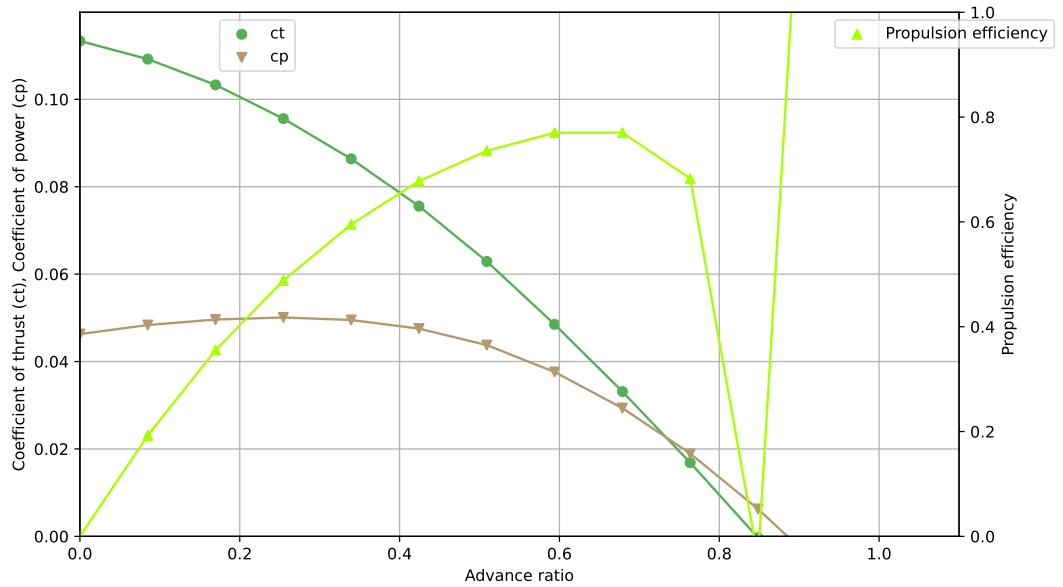
¹ Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

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

For more information or custom propeller options, contact info@mejzlik.eu.
Operation manual: Propeller Maintenance and Repair Manual

Dynamic Performance Data

Simulated data - at 8700 RPM



v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.1133	0.0463	0.0	0.0
5.0	0.1092	0.0484	0.1926	0.0848
10.0	0.1033	0.0496	0.3553	0.1697
15.0	0.0956	0.0501	0.4883	0.2545
20.0	0.0864	0.0495	0.5953	0.3394
25.0	0.0756	0.0475	0.678	0.4242
30.0	0.0629	0.0438	0.7356	0.5091
35.0	0.0485	0.0376	0.7701	0.5939
40.0	0.0331	0.0293	0.7703	0.6788
45.0	0.0168	0.0189	0.6829	0.7636
50.0	-0.0003	0.0063	-0.043	0.8485
55.0	-0.0181	-0.0081	2.0892	0.9333

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

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

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

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