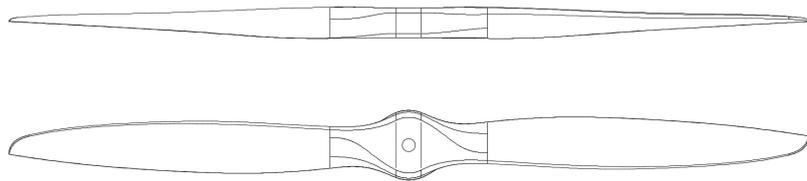


PROPELLER

34x12 2B GAS

PN: 234120



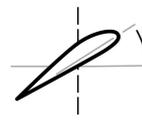
*Illustrative image only



382 g
Mass



34.0"
Diameter



12.0"
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]: $382 \pm 10.0\%$

Moment of inertia [kgm^2]¹: $2.37\text{e-}02$

Core diameter [mm]: 57 (Drilling guide)

Limit RPM²: 5300

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

Production method: Wet layup

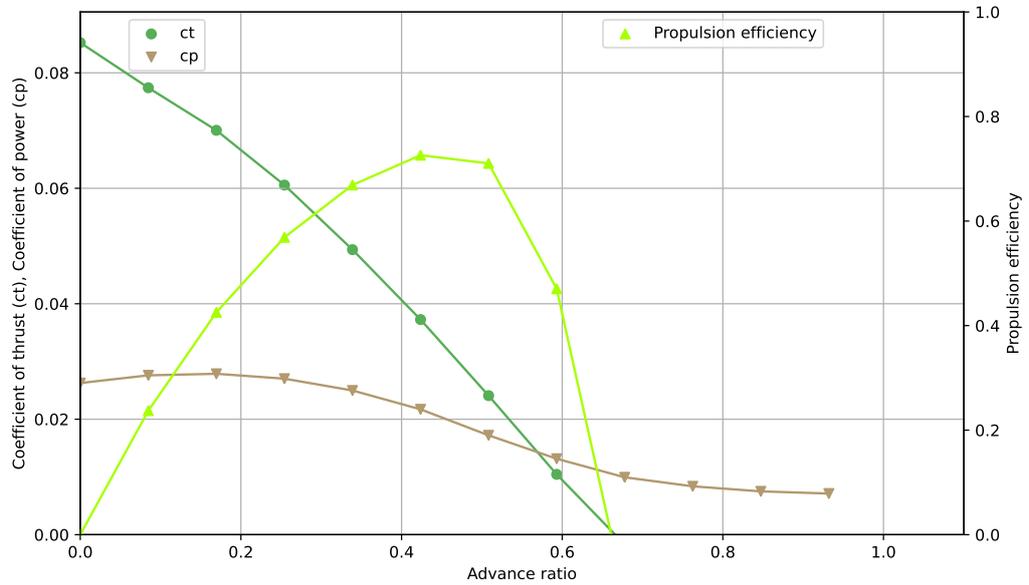
¹ Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

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 4100 RPM



v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.0852	0.0263	0.0	0.0
5.0	0.0774	0.0276	0.2373	0.0847
10.0	0.07	0.0279	0.4253	0.1695
15.0	0.0606	0.027	0.5688	0.2542
20.0	0.0494	0.025	0.669	0.3389
25.0	0.0373	0.0217	0.726	0.4236
30.0	0.0241	0.0172	0.7103	0.5084
35.0	0.0104	0.0132	0.4704	0.5931
40.0	-0.0017	0.0099	-0.1161	0.6778
45.0	-0.01	0.0084	-0.913	0.7625
50.0	-0.0166	0.0075	-1.8755	0.8473
55.0	-0.0211	0.0071	-2.7564	0.932

$$C_T = \frac{T}{\rho RPS^2 D^4}$$

$$C_P = \frac{P_{mech}}{\rho RPS^3 D^5}$$

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

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