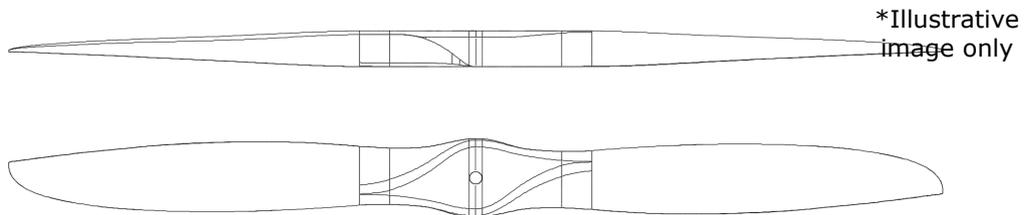


PROPELLER

32x12 2B GAS EVO

PN: 232126



316 g
Mass



32.0"
Diameter



12.0"
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]: $316 \pm 4.0\%$

Moment of inertia [kgm^2]¹: $1.74\text{e-}02$

Core diameter [mm]: 54 (Drilling guide)

Limit RPM²: 5600

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

Production method: Wet layup

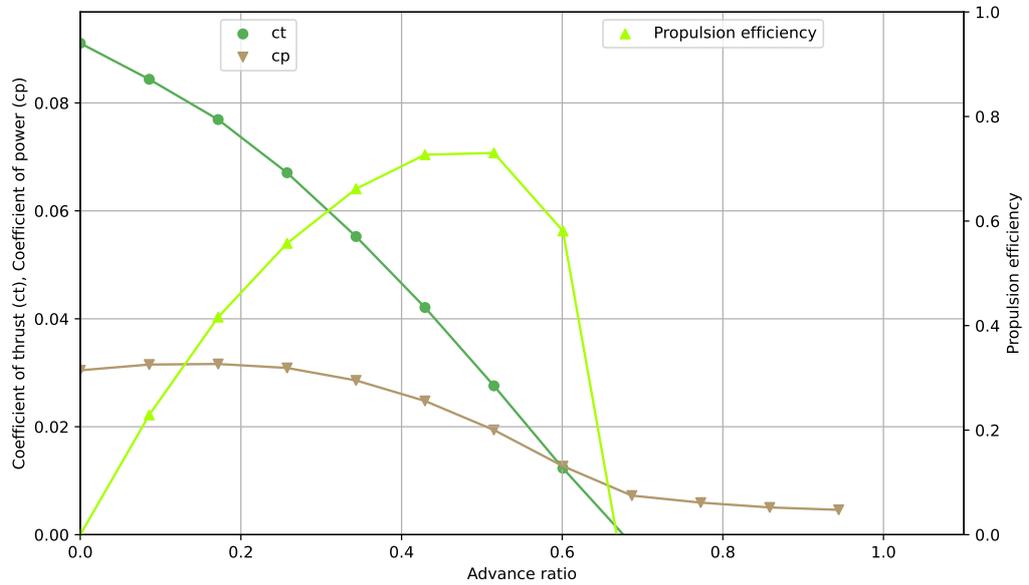
¹ Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot mass \cdot diameter^2 \cdot n^{\circ}ofblades$

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 4300 RPM



v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.0911	0.0305	0.0	0.0
5.0	0.0844	0.0315	0.2291	0.0858
10.0	0.0769	0.0316	0.4163	0.1717
15.0	0.0671	0.0309	0.5573	0.2575
20.0	0.0552	0.0286	0.6617	0.3433
25.0	0.0421	0.0248	0.7269	0.4292
30.0	0.0276	0.0194	0.7303	0.515
35.0	0.0123	0.0127	0.5811	0.6009
40.0	-0.0017	0.0072	-0.1631	0.6867
45.0	-0.0117	0.0059	-1.517	0.7725
50.0	-0.0191	0.005	-3.2477	0.8584
55.0	-0.0247	0.0046	-5.0608	0.9442

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

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

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

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