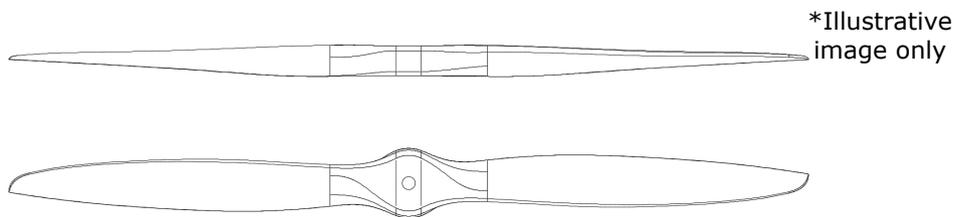


# PROPELLER

## 37x22 2B GAS

PN: 23702203



513 g  
Mass



37.0"  
Diameter



22.0"  
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Clockwise (Direction Guide)

Mass [g]:  $513 \pm 10.0\%$

Moment of inertia [ $\text{kgm}^2$ ]<sup>1</sup>:  $3.78\text{e-}02$

Core diameter [mm]: 72 (Drilling guide)

Limit RPM<sup>2</sup>: 4800

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

Production method: Wet layup

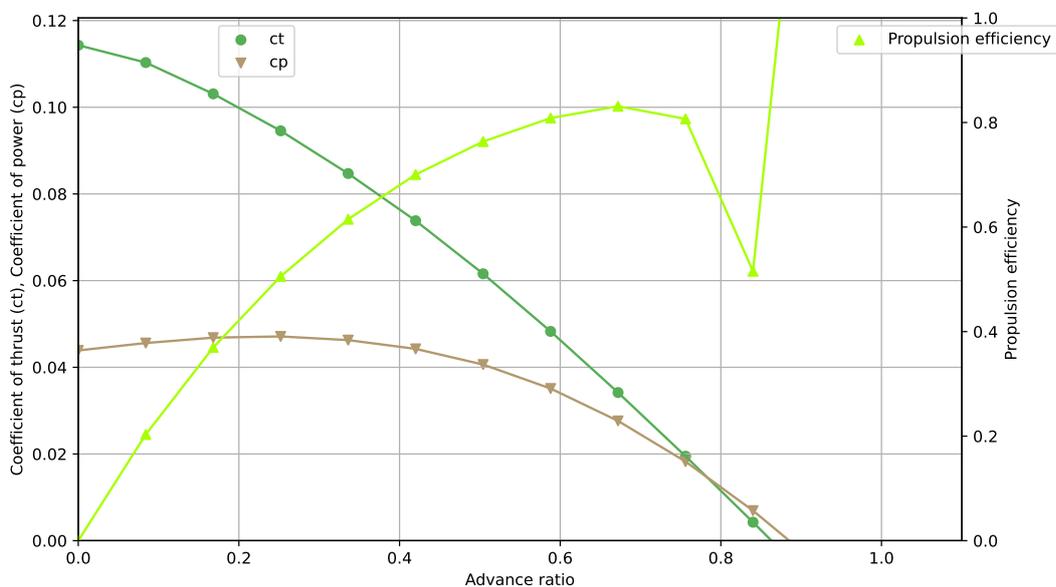
<sup>1</sup> Moment of inertia is only an estimation:  $I = \frac{1}{24} \cdot mass \cdot diameter^2 \cdot n^{\circ}ofblades$

<sup>2</sup> RPM is limited by tip speed; forward speed reduces the limit.

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

# Dynamic Performance Data

Simulated data - at 3800 RPM



v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.1143	0.0439	0.0	0.0
5.0	0.1103	0.0456	0.2032	0.084
10.0	0.1031	0.0468	0.3696	0.168
15.0	0.0946	0.0471	0.5056	0.252
20.0	0.0847	0.0463	0.6149	0.336
25.0	0.0738	0.0443	0.7004	0.42
30.0	0.0616	0.0406	0.7635	0.504
35.0	0.0483	0.0351	0.8085	0.588
40.0	0.0342	0.0276	0.8311	0.672
45.0	0.0195	0.0183	0.8069	0.756
50.0	0.0043	0.0069	0.5154	0.84
55.0	-0.0113	-0.006	1.7428	0.924

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

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

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

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