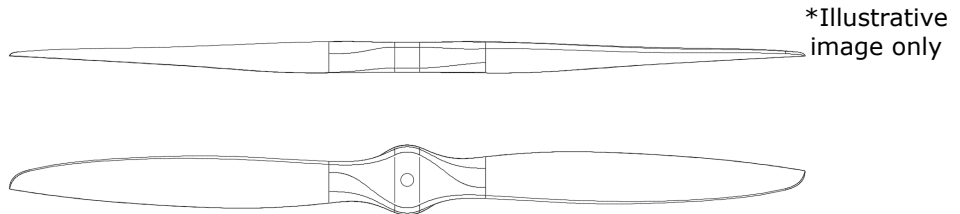


# PROPELLER

## 24x10 2B GAS

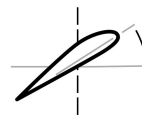
PN: 224100



137 g  
Mass



24.0"  
Diameter



10.0"  
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]:  $137 \pm 4.0\%$

Moment of inertia [ $\text{kgm}^2$ ]<sup>1</sup>:  $4.24\text{e-}03$

Core diameter [mm]: 40 (Drilling guide)

Limit RPM<sup>2</sup>: 7500

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

Production method: Wet layup

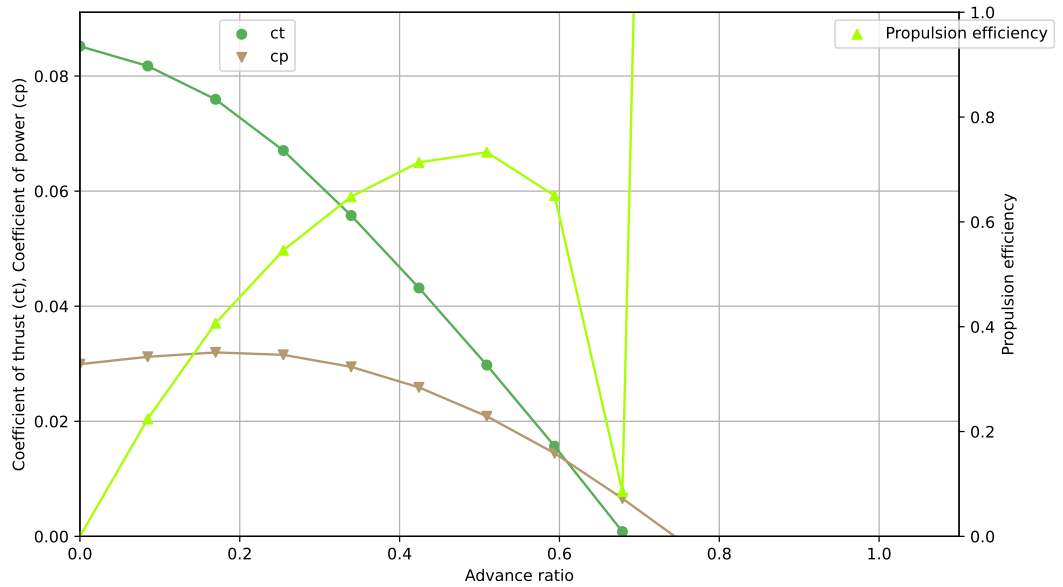
<sup>1</sup> Moment of inertia is only an estimation:  $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

<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 5800 RPM



| v_inf | Ct      | Cp      | Propulsion efficiency | Advance ratio |
|-------|---------|---------|-----------------------|---------------|
| 0.0   | 0.0852  | 0.0299  | 0.0                   | 0.0           |
| 5.0   | 0.0818  | 0.0312  | 0.2243                | 0.0848        |
| 10.0  | 0.076   | 0.032   | 0.4068                | 0.1697        |
| 15.0  | 0.0671  | 0.0315  | 0.5459                | 0.2545        |
| 20.0  | 0.0558  | 0.0295  | 0.6481                | 0.3394        |
| 25.0  | 0.0432  | 0.0259  | 0.7136                | 0.4242        |
| 30.0  | 0.0298  | 0.0209  | 0.7329                | 0.5091        |
| 35.0  | 0.0157  | 0.0144  | 0.6502                | 0.5939        |
| 40.0  | 0.0008  | 0.0066  | 0.0855                | 0.6788        |
| 45.0  | -0.0142 | -0.0019 | 5.6075                | 0.7636        |
| 50.0  | -0.0275 | -0.0096 | 2.4525                | 0.8485        |
| 55.0  | -0.0329 | -0.0089 | 3.4799                | 0.9333        |

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

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

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

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