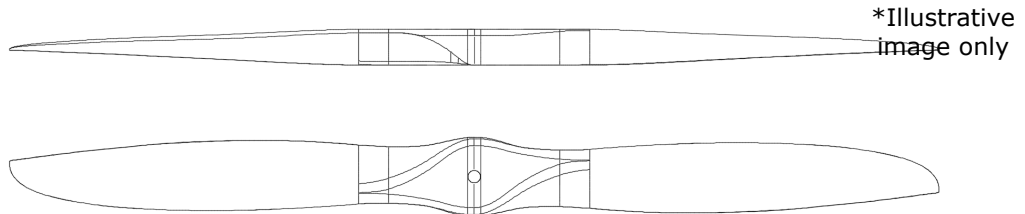


# PROPELLER

## 24x8 2B GAS EVO II

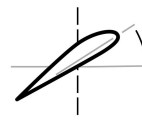
PN: 224087



143 g  
Mass



24.0"  
Diameter



8.0"  
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]:  $143 \pm 10.0\%$

Moment of inertia [ $\text{kgm}^2$ ]<sup>1</sup>:  $4.43\text{e-}03$

Core diameter [mm]: - (Drilling guide)

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

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

Production method: Wet layup

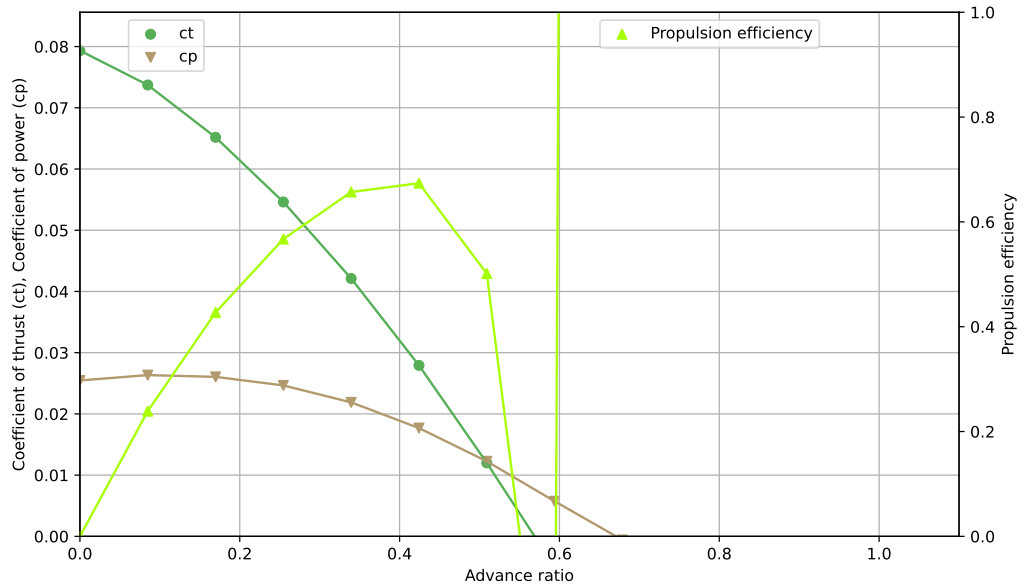
<sup>1</sup> Moment of inertia is only an estimation:  $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

<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   | 0.0793  | 0.0255  | 0.0                   | 0.0           |
| 5.0   | 0.0737  | 0.0263  | 0.2389                | 0.0848        |
| 10.0  | 0.0652  | 0.026   | 0.4271                | 0.1697        |
| 15.0  | 0.0546  | 0.0247  | 0.5673                | 0.2545        |
| 20.0  | 0.0421  | 0.0219  | 0.657                 | 0.3394        |
| 25.0  | 0.0279  | 0.0177  | 0.6738                | 0.4242        |
| 30.0  | 0.012   | 0.0123  | 0.5014                | 0.5091        |
| 35.0  | -0.005  | 0.0057  | -0.523                | 0.5939        |
| 40.0  | -0.0221 | -0.0006 | 25.5602               | 0.6788        |
| 45.0  | -0.0328 | -0.0022 | 11.4695               | 0.7636        |
| 50.0  | -0.0408 | -0.0039 | 9.0043                | 0.8485        |
| 55.0  | -0.0459 | -0.0056 | 7.6825                | 0.9333        |

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

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

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

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