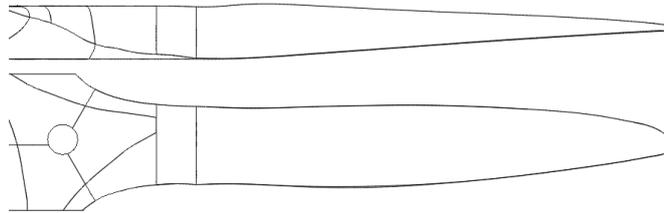


# PROPELLER

## 24x12 3B GAS

PN: 324120



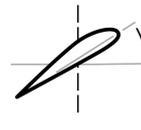
\*Illustrative image only



206 g  
Mass



24.0"  
Diameter



12.0"  
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]:  $206 \pm 6.0\%$

Moment of inertia [kgm<sup>2</sup>]<sup>1</sup>: 9.57e-03

Core diameter [mm]: 46 (Drilling guide)

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

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

Production method: Wet layup

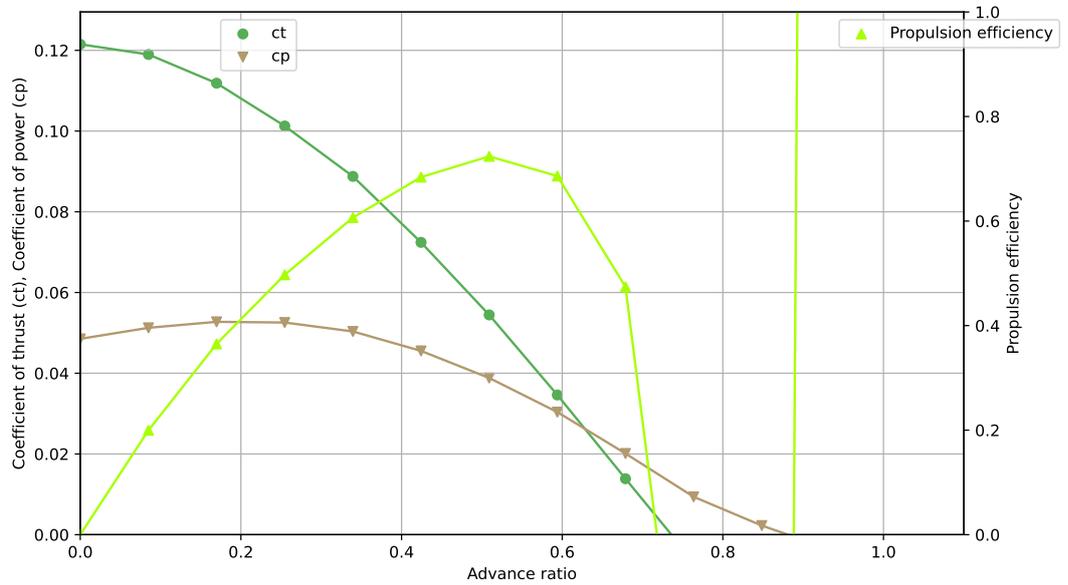
<sup>1</sup> Moment of inertia is only an estimation:  $I = \frac{1}{24} \cdot mass \cdot diameter^2 \cdot n^{\circ}ofblades$

<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 5800 RPM



v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.1215	0.0485	0.0	0.0
5.0	0.119	0.0513	0.1997	0.0848
10.0	0.1119	0.0527	0.3649	0.1697
15.0	0.1013	0.0526	0.4971	0.2545
20.0	0.0888	0.0504	0.6066	0.3394
25.0	0.0724	0.0455	0.684	0.4242
30.0	0.0544	0.0388	0.7238	0.5091
35.0	0.0346	0.0304	0.6861	0.5939
40.0	0.0139	0.0201	0.4741	0.6788
45.0	-0.0067	0.0094	-0.5534	0.7636
50.0	-0.0234	0.0023	-8.9101	0.8485
55.0	-0.0386	-0.0036	10.0865	0.9333

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

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

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

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