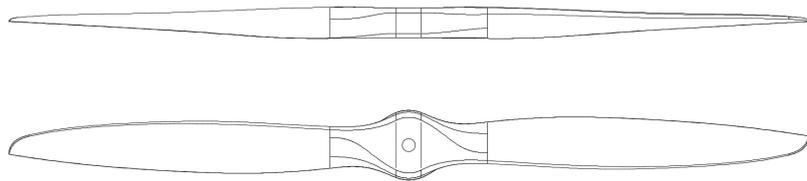


# PROPELLER

## 30x12 2B GAS

PN: 230120



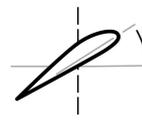
\*Illustrative image only



286 g  
Mass



30.0"  
Diameter



12.0"  
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]:  $286 \pm 7.0\%$

Moment of inertia [ $\text{kgm}^2$ ]<sup>1</sup>:  $1.38\text{e-}02$

Core diameter [mm]: 54 (Drilling guide)

Limit RPM<sup>2</sup>: 6000

Working temperature [ $^{\circ}\text{C}$ ]: from  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$

Production method: Wet layup

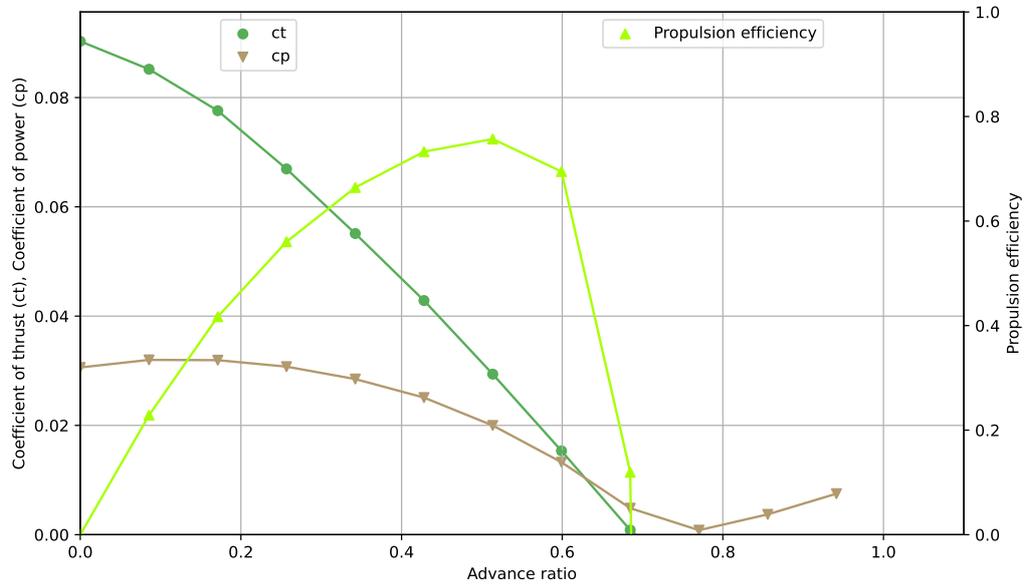
<sup>1</sup> Moment of inertia is only an estimation:  $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

<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 4600 RPM



v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.0903	0.0306	0.0	0.0
5.0	0.0852	0.032	0.2285	0.0856
10.0	0.0776	0.0319	0.417	0.1712
15.0	0.0669	0.0308	0.5603	0.2568
20.0	0.0551	0.0285	0.6641	0.3423
25.0	0.0428	0.0251	0.7327	0.4279
30.0	0.0294	0.02	0.7569	0.5135
35.0	0.0153	0.0133	0.6947	0.5991
40.0	0.0008	0.0048	0.1194	0.6847
45.0	-0.0097	0.0008	-9.1376	0.7703
50.0	-0.0142	0.0037	-3.2743	0.8559
55.0	-0.0169	0.0075	-2.1271	0.9415

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

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

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

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