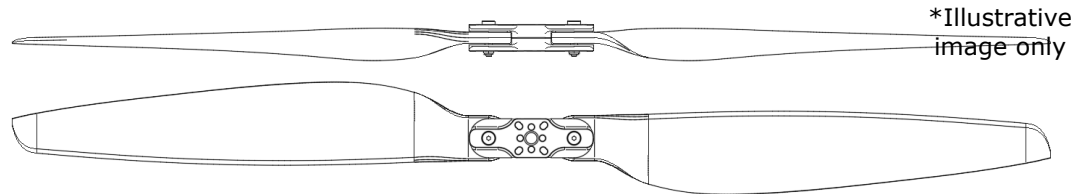


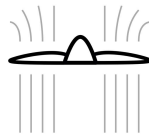
PROPELLER

22x7.4 2B MC gen.02 Folding

PN: 122000747, 122000748



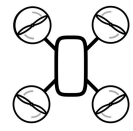
70 g
Mass



18.9 kgf
Max Thrust



22.0"
Diameter



Multicopter

Engine/Motor type: Electric

Rotation direction: Counter-clockwise and Clockwise available
(Direction Guide)

Features: Folding Blades

Mass [g]: $70 \pm 5.0\%$

Moment of inertia [kgm^2]¹: $5.12\text{e-}04$

Center hole diameter [mm]: 6

Drilling pattern [mm]: 4xM3 on $\varnothing 12$ and $\varnothing 18-20$

Limit hover RPM²: 8200

Limit forward speed [m/s]: 25

Working temperature [$^{\circ}\text{C}$]: from -20°C to 110°C

Production method: Prepreg

Tests performed³: Overspin Test, Centrifugal Load Test, Tip
Deflection Test

¹ Moment of inertia is measured.

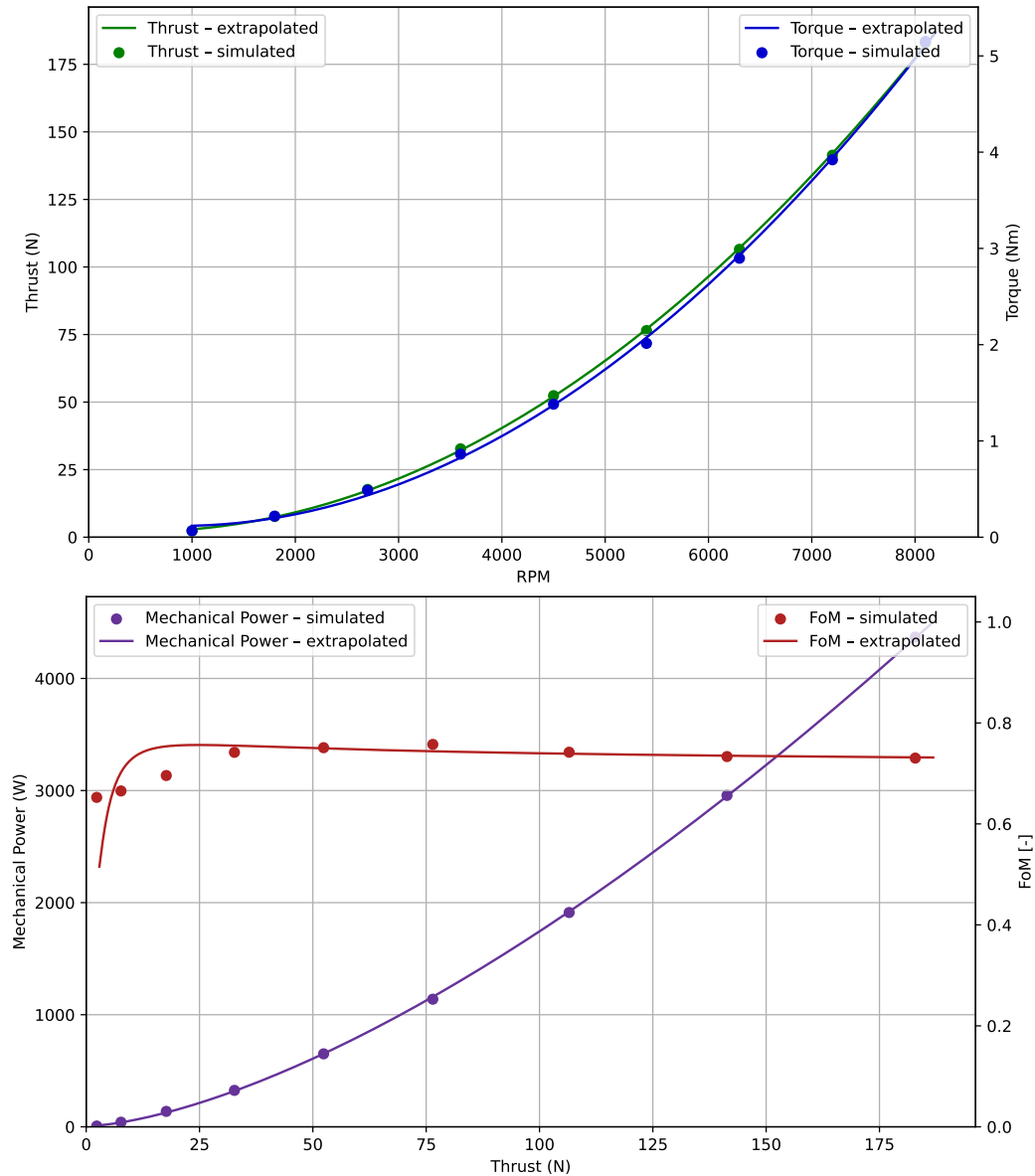
² RPM is limited by tip speed; forward speed reduces the limit.

³ Tests performed on a sample propeller.

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

Static Performance Data

Simulated data



$$\text{Thrust (RPM): } 3.108e-06 \cdot RPM^2 + -3.050e-03 \cdot RPM + 2.846e+00$$

$$\text{Torque (RPM): } 9.560e-08 \cdot RPM^2 + -1.675e-04 \cdot RPM + 1.905e-01$$

$$\text{Mechanical power (RPM): } \frac{2\pi \cdot \text{Torque[Nm]} \cdot RPM}{60}$$

Formulas used to
calculate FOM

:

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

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

$$FOM = \sqrt{\frac{2}{\pi} \frac{C_T^{3/2}}{C_P}}$$