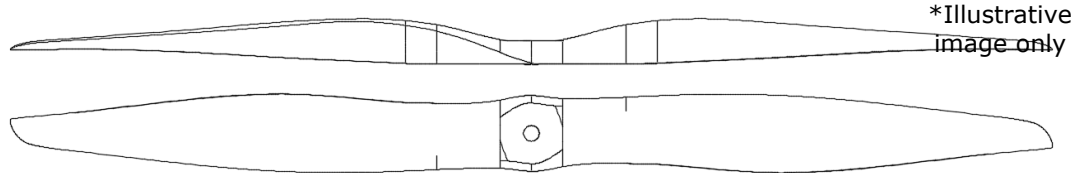


PROPELLER

14x8.4 2B MC

PN: 21400840, 21400841



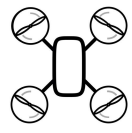
28 g
Mass



10.9 kgf
Max Thrust



14.0"
Diameter



Multicopter

Engine/Motor type: Electric

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

Mass [g]: $28 \pm 10.0\%$

Moment of inertia [kgm^2]¹: $2.95\text{e-}04$

Core diameter [mm]: - (Drilling guide)

Limit hover RPM²: 12800

Limit forward speed [m/s]: Not calculated

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

Production method: Wet layup

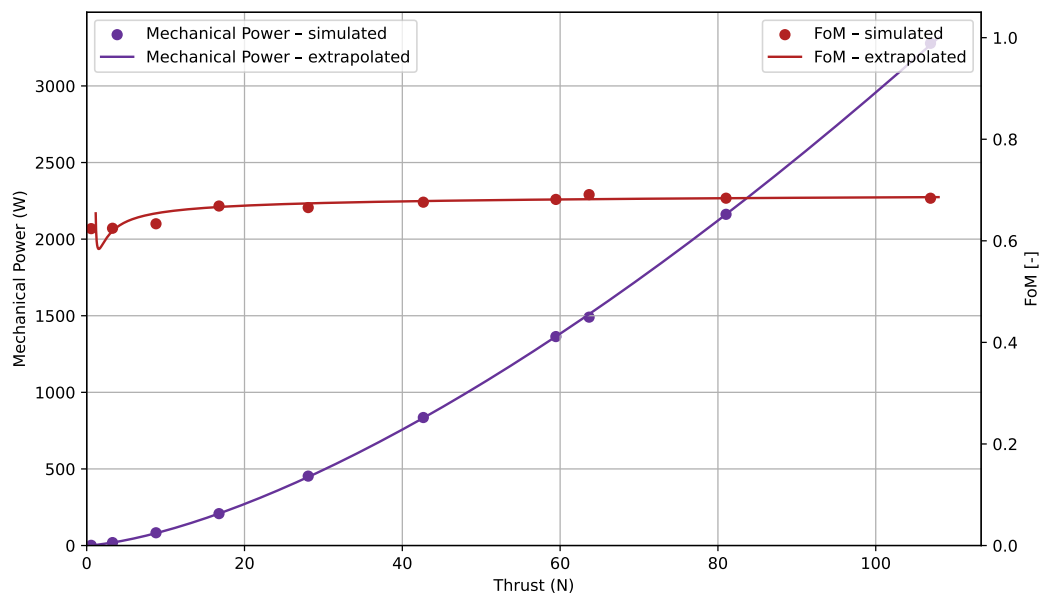
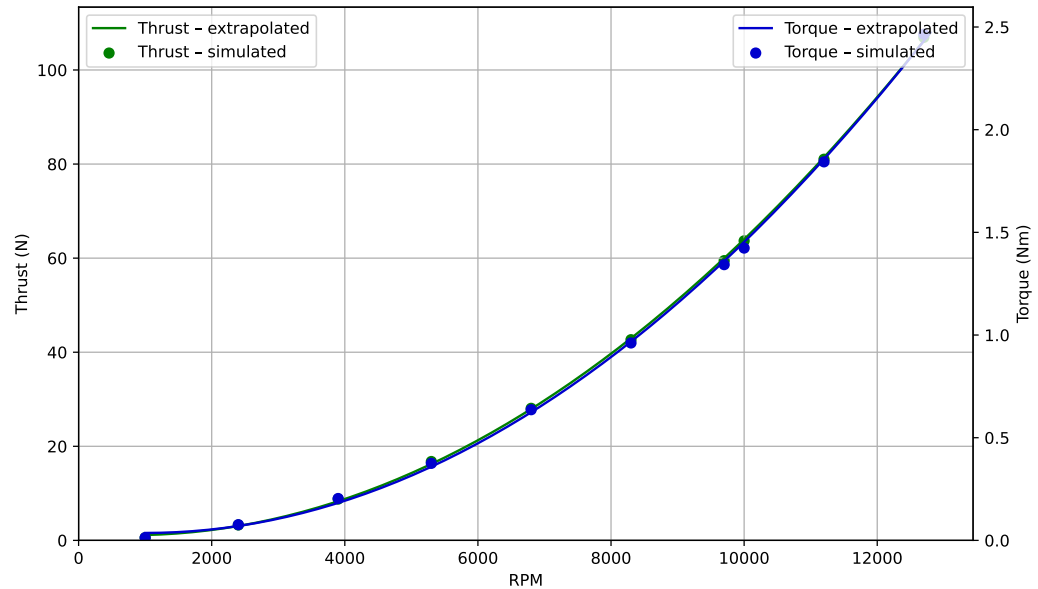
¹ Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

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

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

Static Performance Data

Simulated data



$$\text{Thrust (RPM): } 7.389e-07 \cdot RPM^2 + -1.140e-03 \cdot RPM + 1.547e+00$$

$$\text{Torque (RPM): } 1.753e-08 \cdot RPM^2 + -3.540e-05 \cdot RPM + 5.398e-02$$

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

Formulas used to
calculate FOM

:

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

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

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