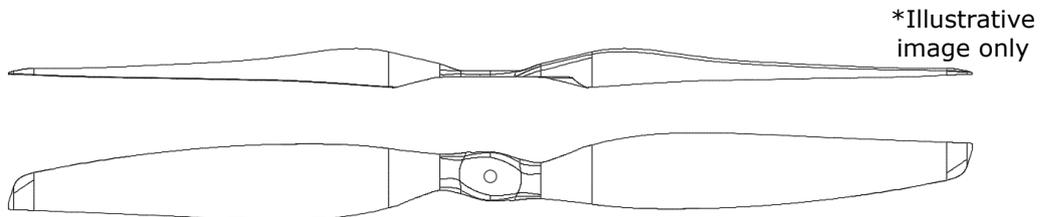


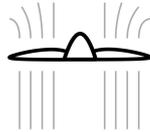
PROPELLER

22x7.4 2B MC

PN: 2220742, 2220743



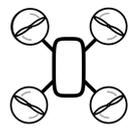
46 g
Mass



18.4 kgf
Max Thrust



22.0"
Diameter



Multicopter

Engine/Motor type: Electric

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

Mass [g]: $46 \pm 6.0\%$

Moment of inertia [kgm^2]¹: 1.20e-03

Core diameter [mm]: 20.5 (Drilling guide)

Limit hover RPM²: 8200

Limit forward speed [m/s]: Not calculated

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

Production method: Wet layup

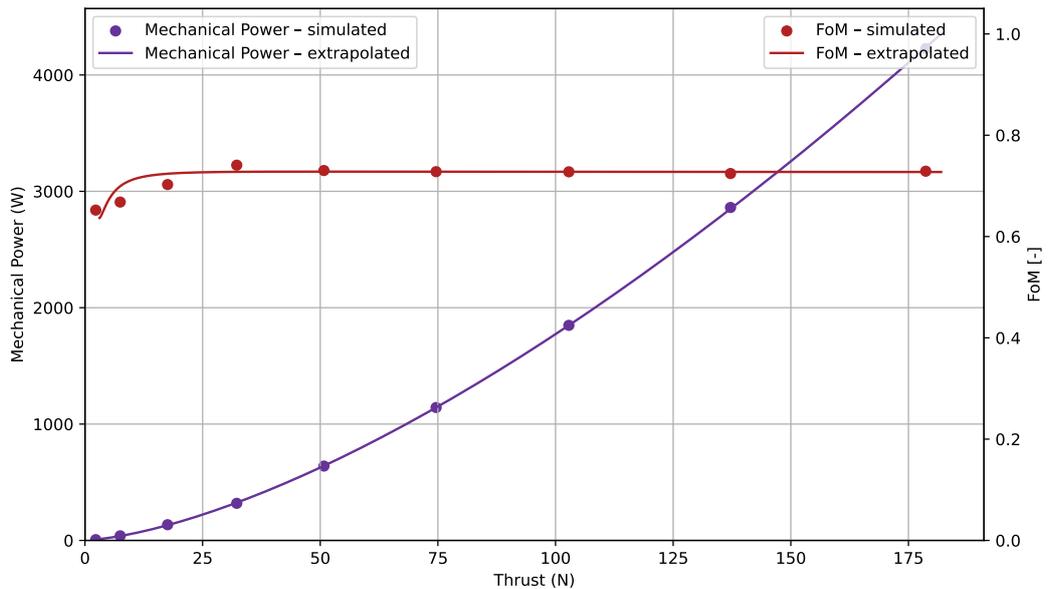
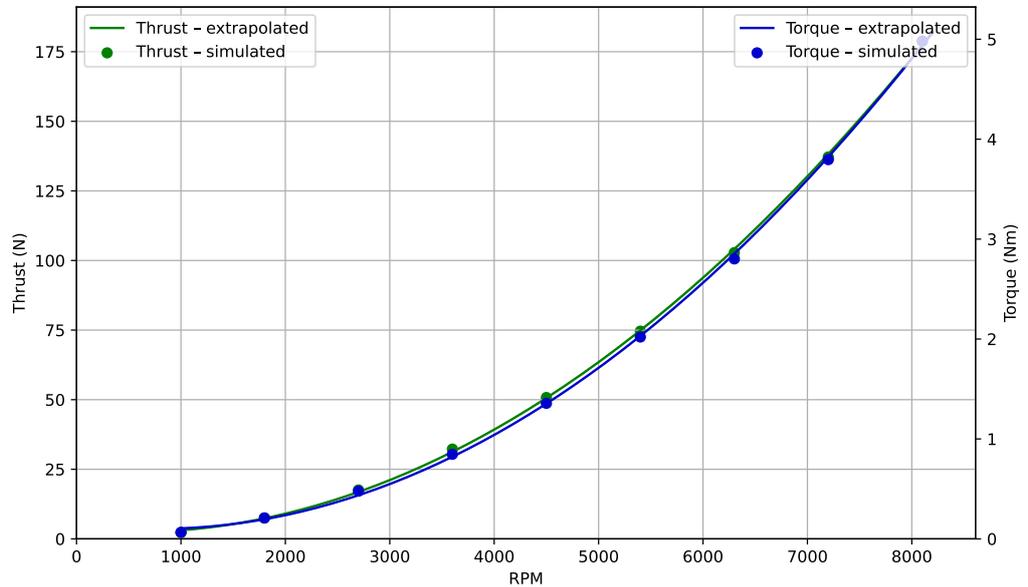
¹ Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{of blades}$

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

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

Static Performance Data

Simulated data



$$\text{Thrust (RPM): } 3.045e - 06 \cdot \text{RPM}^2 + -3.170e - 03 \cdot \text{RPM} + 3.217e + 00$$

$$\text{Torque (RPM): } 8.994e - 08 \cdot \text{RPM}^2 + -1.380e - 04 \cdot \text{RPM} + 1.532e - 01$$

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

Formulas used to calculate FOM :

$$C_T = \frac{T}{\rho RPS^2 D^4} \quad C_P = \frac{P_{mech}}{\rho RPS^3 D^5} \quad FOM = \sqrt{\frac{2}{\pi} \frac{C_T^{3/2}}{C_P}}$$