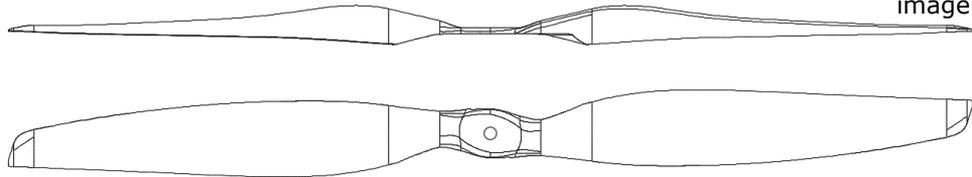


PROPELLER

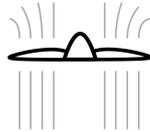
42x15.2 2B MC D-Box

PN: 24201521, 24201524

*Illustrative
image only



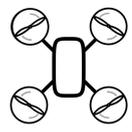
335 g
Mass



66.5 kgf
Max Thrust



42.0"
Diameter



Multicopter

Engine/Motor type: Electric

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

Mass [g]: $335 \pm 10.0\%$

Moment of inertia [kgm^2]¹: $3.18\text{e-}02$

Core diameter [mm]: 54 (Drilling guide)

Limit hover RPM²: 4200

Limit forward speed [m/s]: Not calculated

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

Production method: Wet layup

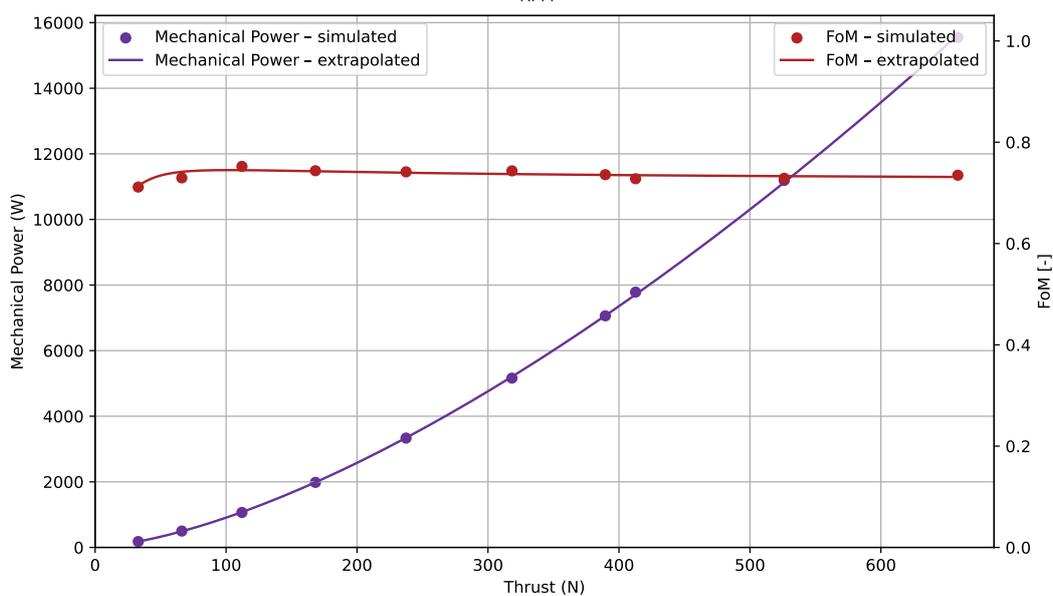
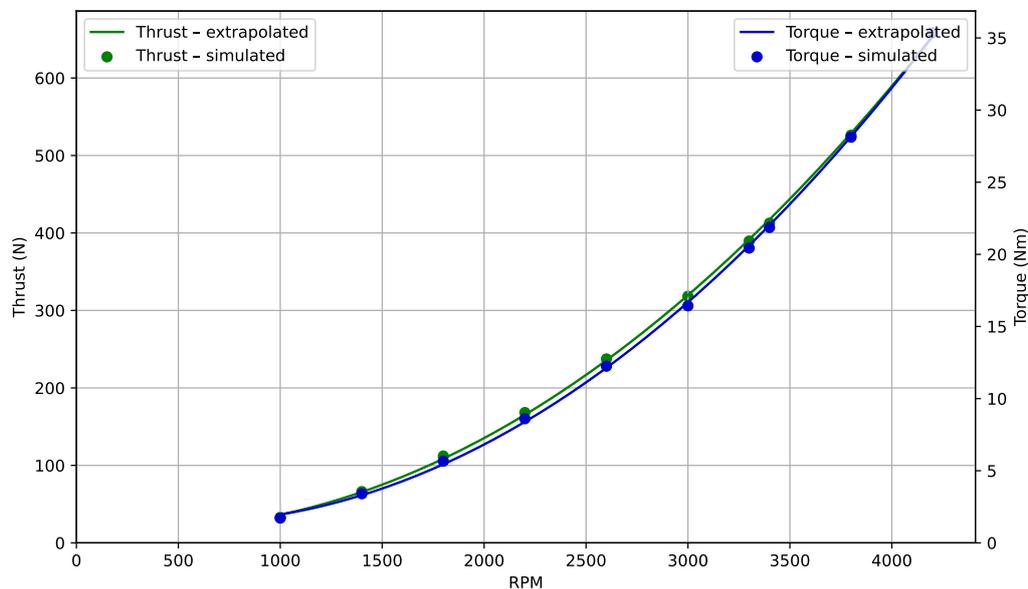
¹ Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

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

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

Static Performance Data

Simulated data



$$\text{Thrust (RPM): } 4.273e - 05 \cdot RPM^2 + -2.927e - 02 \cdot RPM + 2.283e + 01$$

$$\text{Torque (RPM): } 2.501e - 06 \cdot RPM^2 + -2.650e - 03 \cdot RPM + 2.106e + 00$$

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

Formulas used to calculate FOM :

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