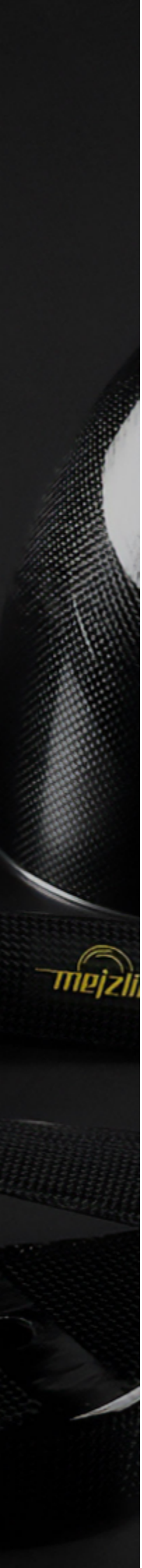
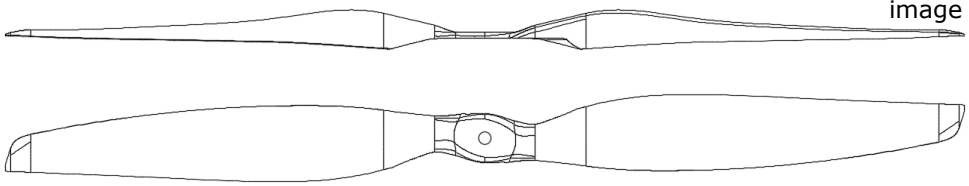


PROPELLER
40x13.3 2B MC D-Box

PN: 24001330, 24001331

*Illustrative image only



205 g
Mass

62.6 kgf
Max Thrust

40.0”
Diameter

Multicopter

Engine/Motor type:	Electric
Rotation direction:	Counter-clockwise and Clockwise available (Direction Guide)
Mass [g]:	205 ± 6.0%
Moment of inertia [kgm^2][1]:	1.76e-02
Core diameter [mm]:	35.6 (Drilling guide)
Limit hover RPM[2]:	4500
Limit forward speed [m/s]:	Not calculated
Working temperature [°C]:	from -20°C to 60°C
Production method:	Wet layup

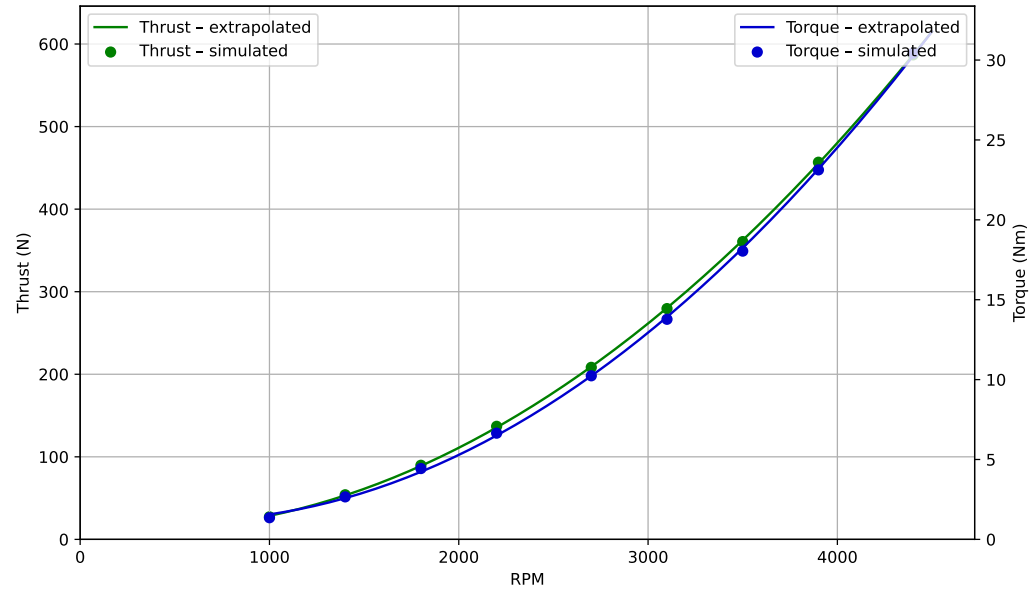
[1] Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot mass \cdot diameter^2 \cdot n^{o}ofblades$

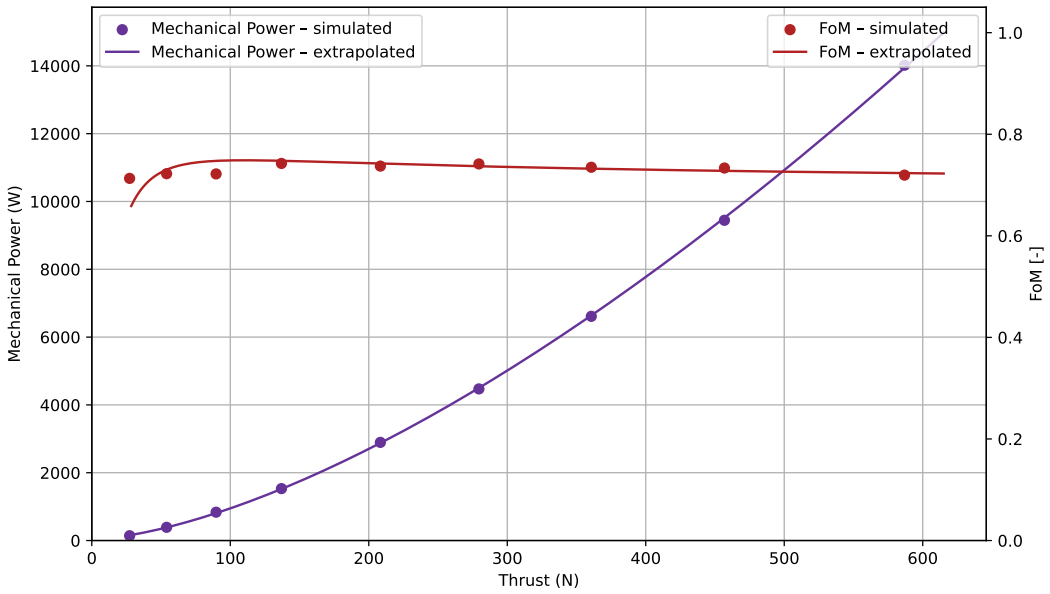
[2] RPM is limited by tip speed; forward speed reduces the limit.

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

Static Performance Data

Simulated data





Thrust (RPM): $3.407e-05 \cdot RPM^2 + -1.975e-02 \cdot RPM + 1.417e+01$

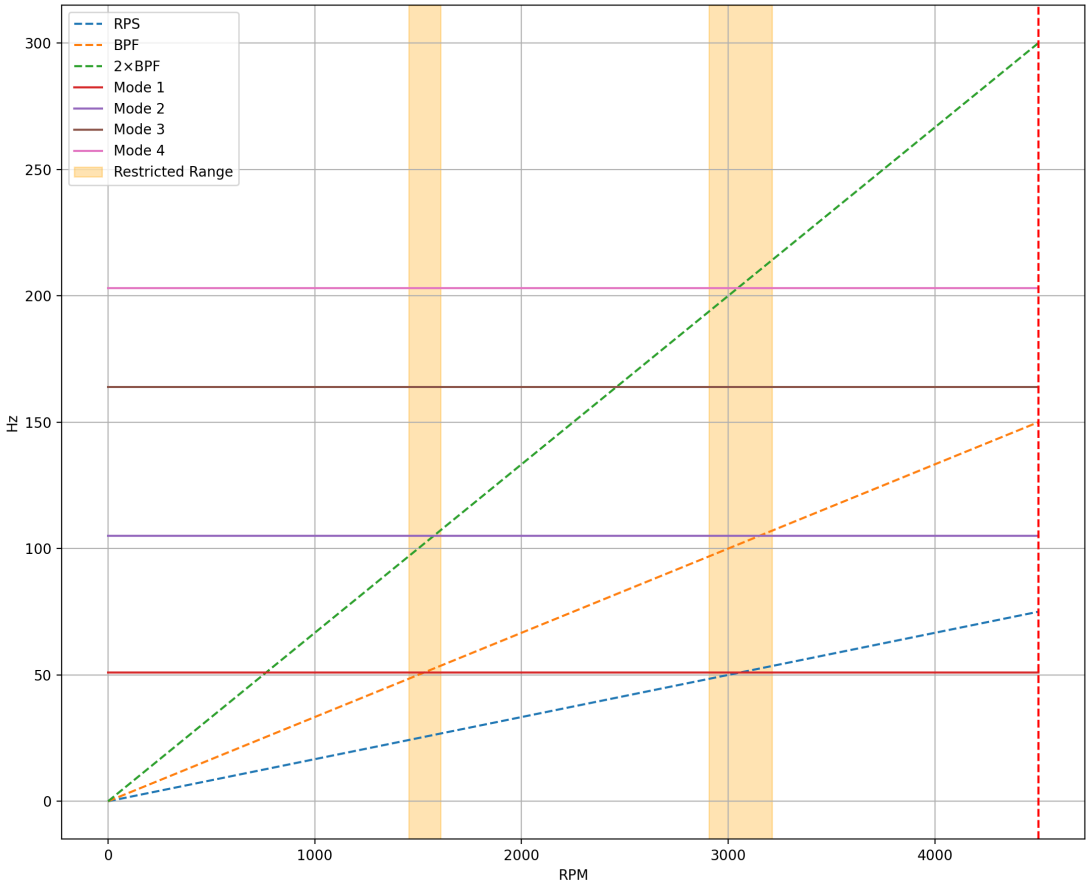
Torque (RPM): $1.965e-06 \cdot RPM^2 + -2.170e-03 \cdot RPM + 1.770e+00$

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

Formulas used to calculate FOM : $C_T = \frac{T}{\rho\, RPS^2\, D^4}$ $C_P = \frac{P_{mech}}{\rho\, RPS^3\, D^5}$ $FOM = \sqrt{\frac{2}{\pi}}\,\frac{C_T^{3/2}}{C_P}$

Natural frequencies

Measured data



Intersection	Restricted RPM ranges[1]
RPS - Mode 1	2900-3220[2]
BPF - Mode 1	1450-1610[2]

1 Longterm use at these RPM should be avoided, as these RPM can lead to higher vibrations and possible damage to the propeller. Short-term use or crossing of this range to reach higher operational rpm is allowed.

2 Data is measured at 0 RPM. Centrifugal stiffening is not accounted for. Real RPM range will be higher.