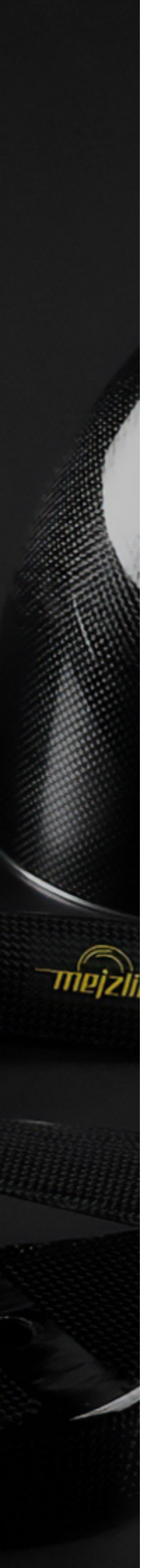
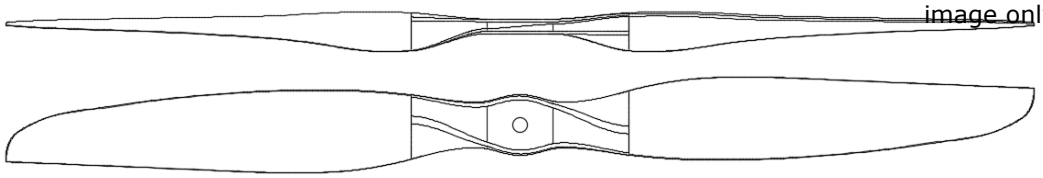


PROPELLER
28x10.1 2B MC

PN: 22801015, 22801016



*Illustrative image only

68 g	18.3 kgf	28.0”	Multicopter
Mass	Max Thrust	Diameter	

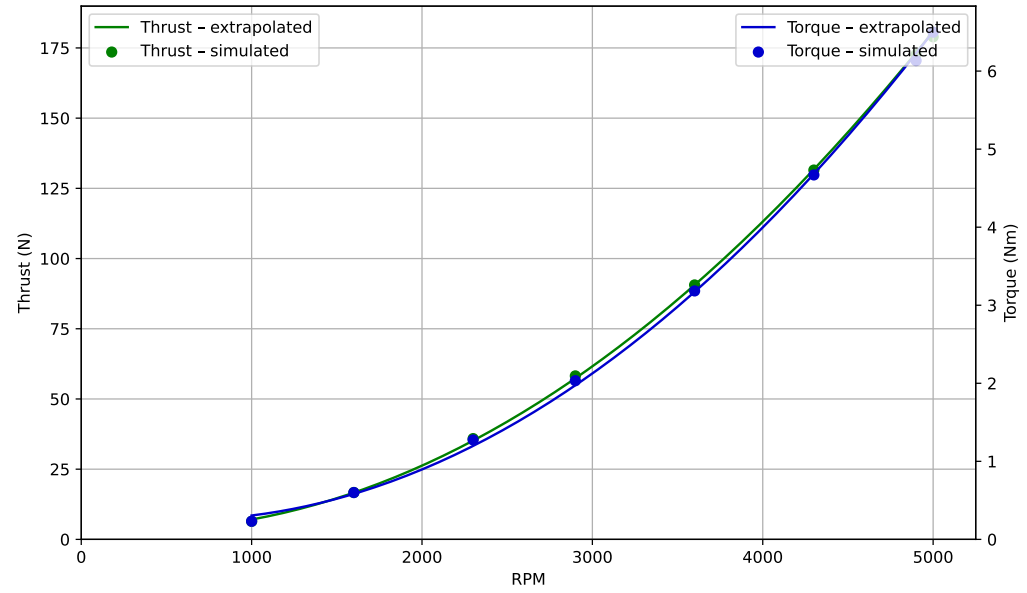
Engine/Motor type:	Electric
Rotation direction:	Counter-clockwise and Clockwise available (Direction Guide)
Mass [g]:	68 ± 3.0%
Moment of inertia [kgm^2][1]:	1.65e-03
Core diameter [mm]:	30 (Drilling guide)
Limit hover RPM[2]:	5000
Limit forward speed [m/s]:	25
Working temperature [°C]:	from -20°C to 110°C
Production method:	Prepreg
Tests performed[3]:	Static Performance Test, Overspin Test, Endurance Test, Centrifugal Load Test, Tip Deflection Test

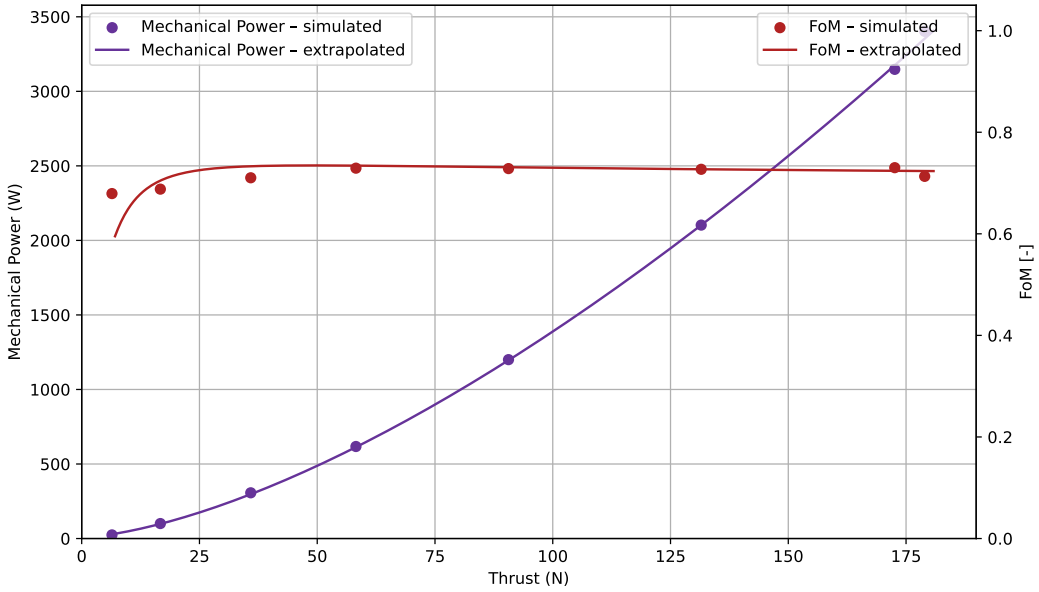
1 Moment of inertia is measured.
2 RPM is limited by tip speed; forward speed reduces the limit.
3 Tests performed on a sample propeller.

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

Static Performance Data

Simulated data





Thrust (RPM): $8.086e-06 \cdot RPM^2 + -5.080e-03 \cdot RPM + 4.064e+00$

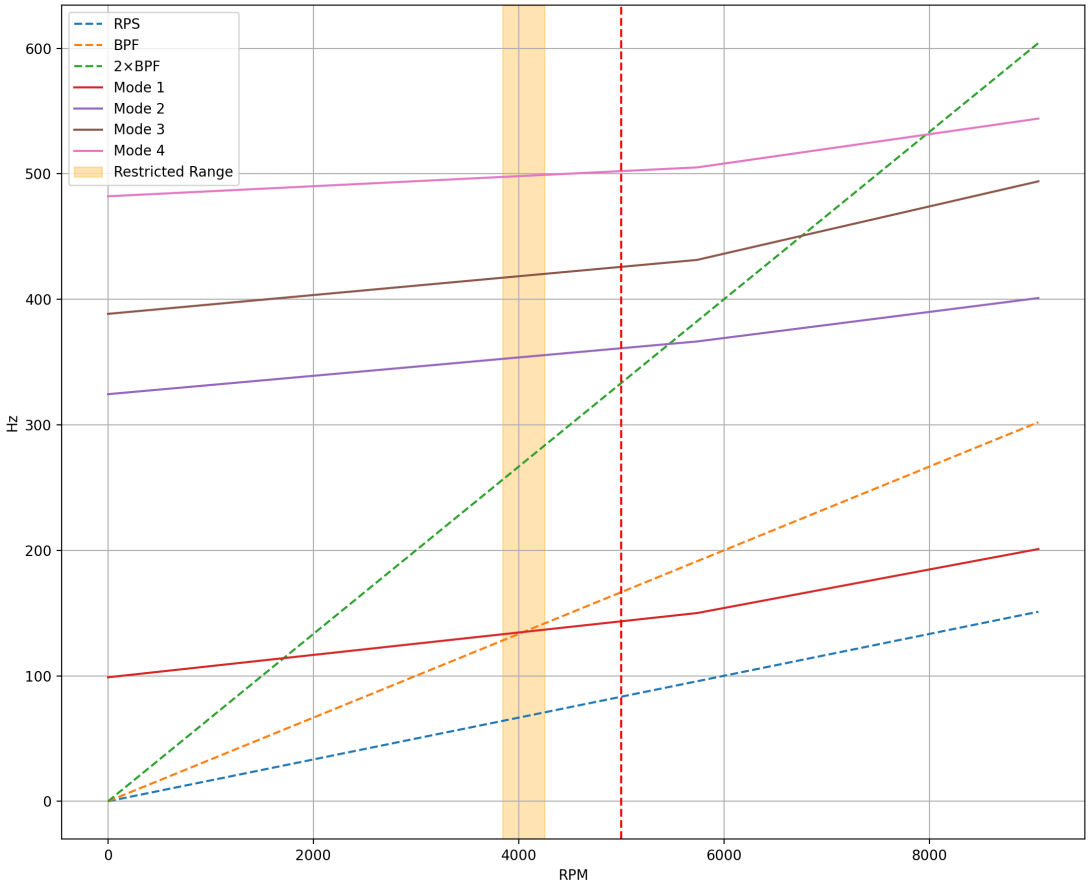
Torque (RPM): $3.201e-07 \cdot RPM^2 + -3.706e-04 \cdot RPM + 3.564e-01$

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

Simulated data



Intersection	Restricted RPM ranges[1]
RPS - Mode 1	-
BPF - Mode 1	3840-4260[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 simulated using Finite Element Analysis (FEA).