PROPELLER
18x6 2B MC

PN: 2180600, 2180601

*Illustrative image only
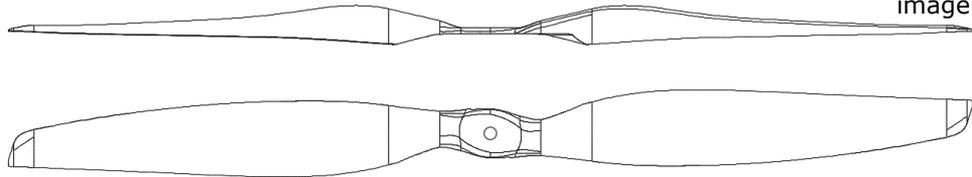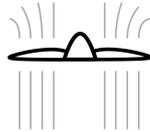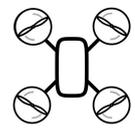

25 g Mass	12.3 kgf Max Thrust	18.0" Diameter	Multicopter

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Engine/Motor type:	Electric
Rotation direction:	Counter-clockwise and Clockwise available (Direction Guide)
Mass [g]:	$25 \pm 10.0\%$
Moment of inertia [kgm^2][1]:	4.35e-04
Core diameter [mm]:	16.9 (Drilling guide)
Limit hover RPM[2]:	10000
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: $I = \frac{1}{24} \cdot mass \cdot diameter^2 \cdot n^o of blades$
[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

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Static Performance Data

Simulated data
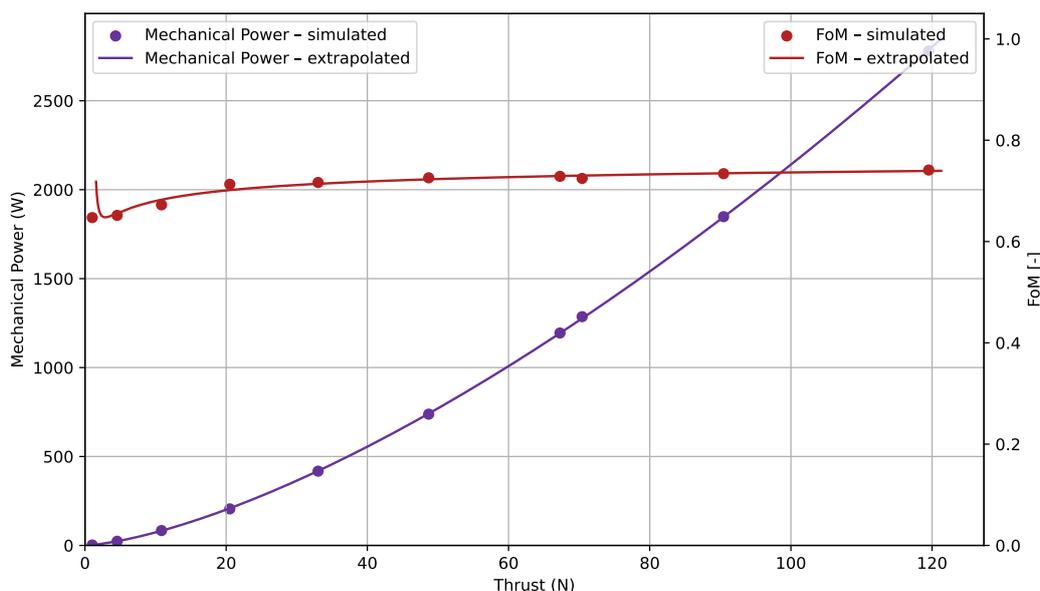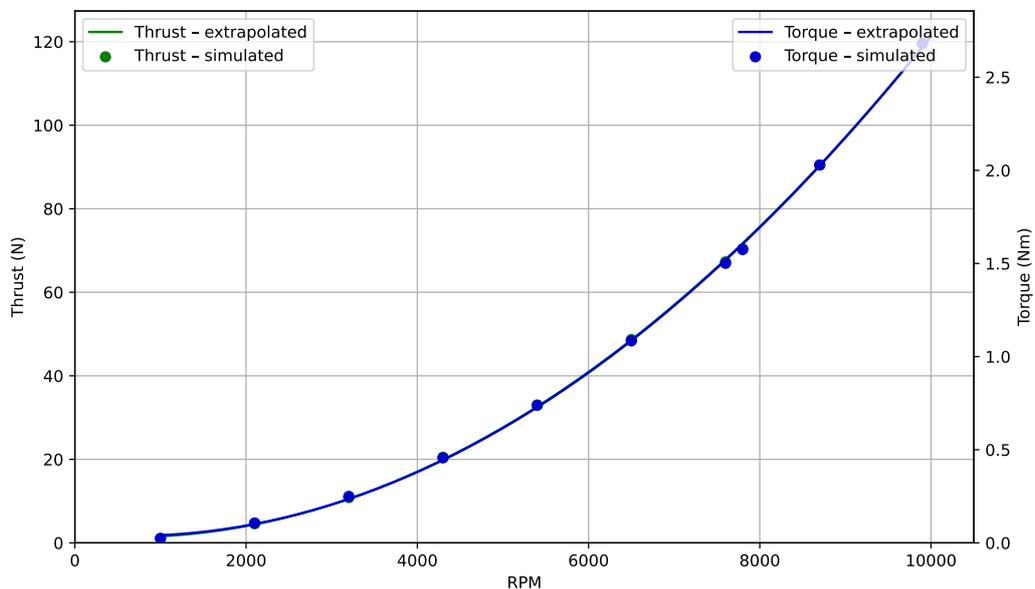
Thrust (RPM): $1.357e-06 \cdot RPM^2 + -1.630e-03 \cdot RPM + 1.841e+00$

Torque (RPM): $3.076e-08 \cdot RPM^2 + -4.079e-05 \cdot RPM + 5.122e-02$

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

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