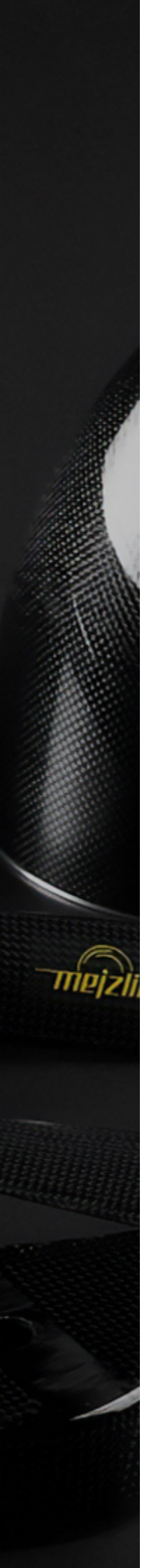
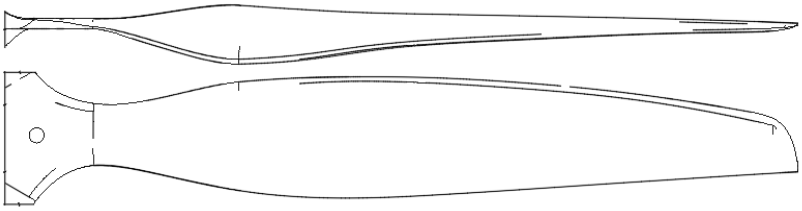


# PROPELLER
# 40x13.3 3B MC

PN: 34013302, 34013303



*Illustrative image only

| 285 g | 80.7 kgf | 40.0” | Multicopter |
|---|---|---|---|
| Mass | Max Thrust | Diameter | |

| | |
|---|---|
| Engine/Motor type: | Electric |
| Rotation direction: | Counter-clockwise and Clockwise available (Direction Guide) |
| Mass [g]: | 285 ± 6.0% |
| Moment of inertia [kgm$^2$][1]: | 3.68e-02 |
| Core diameter [mm]: | 51 (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 |

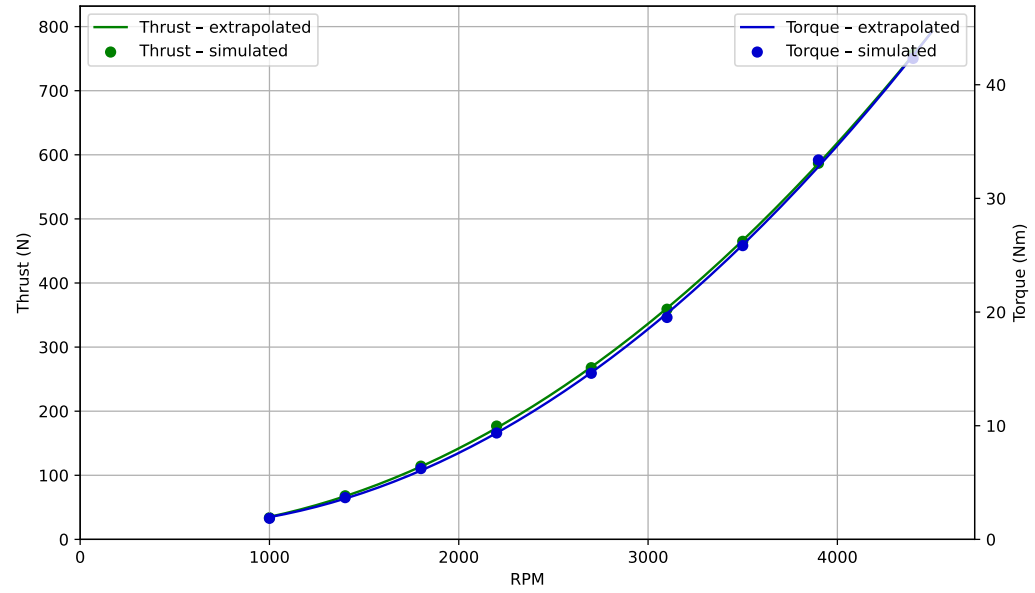
[1] Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot mass \cdot diameter^2 \cdot n°ofblades$

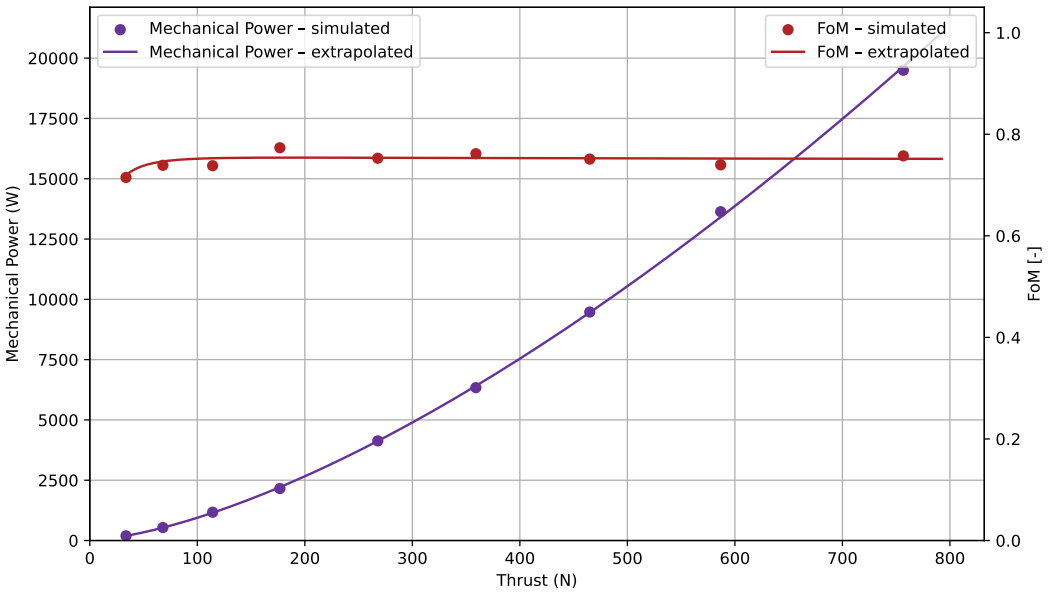
[2] RPM is limited by tip speed; forward speed reduces the limit.

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): $4.381e-05 \cdot RPM^2 + -2.464e-02 \cdot RPM + 1.602e+01$

Torque (RPM): $2.624e-06 \cdot RPM^2 + -2.230e-03 \cdot RPM + 1.562e+00$

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

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