

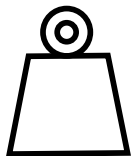
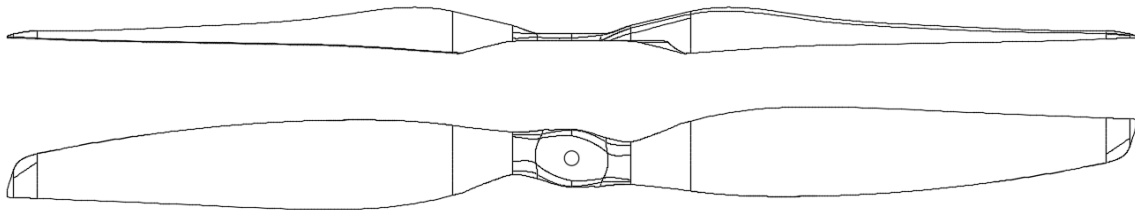


40x13.3 2B MC

PN:2401332, 2401333

Product sheet

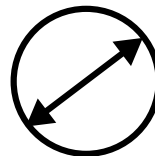
Rev.: 00
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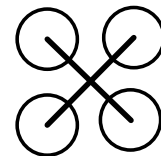
191 g
Mass



64.6 kgf
Max Thrust



40.0"
Diameter



Multicopter

Engine type:	Electric
Folding/Fixed	Fixed
Rotational direction:	Counter-clockwise and Clockwise available
Weight [g]:	191 ± 5.0%
Moment of inertia [kgm ²]:	1.64e-02
Center hole [mm]:	∅ 10
Max drilling diameter [mm]:	60
Mounting:	link to possible patterns
Limit RPM (0.7 Mach at blade tip)	4500
Working temperature [°C]	from -45°C to 65°C
Materials used:	carbon fiber, glass fiber, roving, polyurethane, epoxy
Tests performed:	balancing, visual inspection, structural integrity (ATO)

Formula used to calculate moment of inertia: $I = \frac{1}{12} \cdot mass \cdot diameter^2$

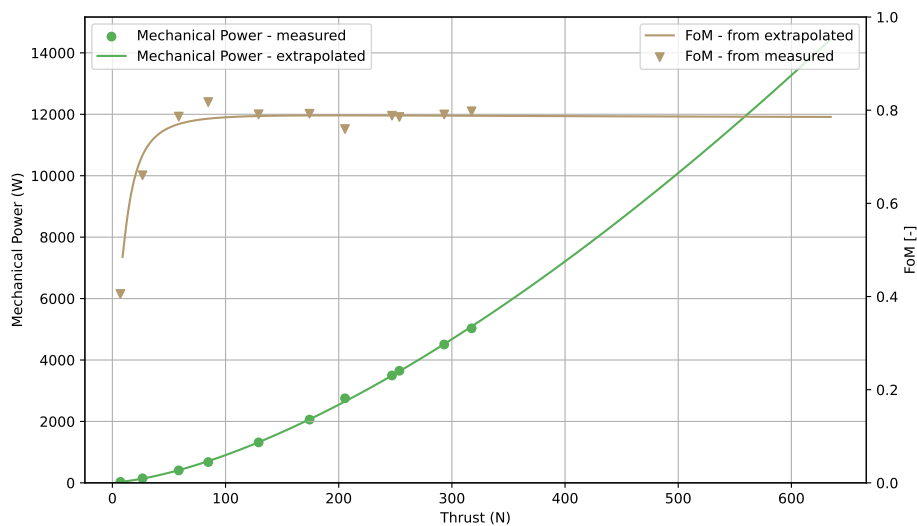
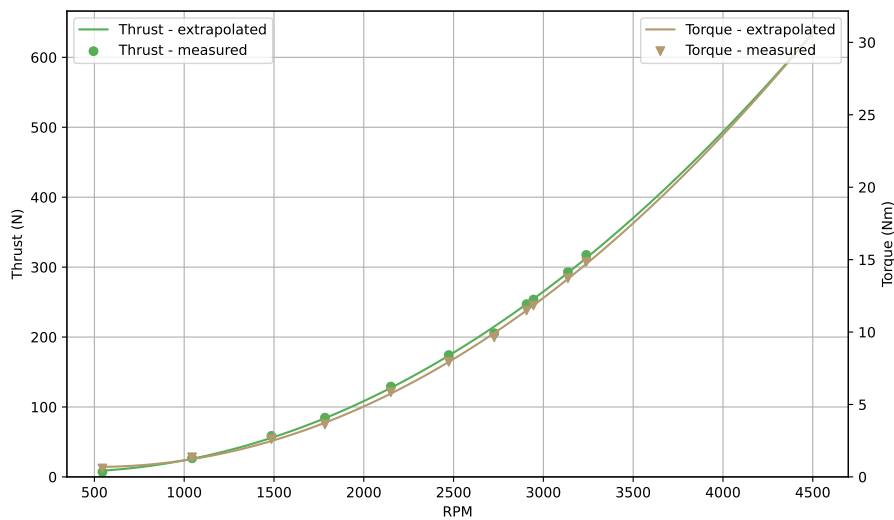


40x13.3 2B MC

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Measured data

Static test result



$$\text{Thrust (RPM)} = 3.5971e-05 \cdot \text{RPM}^2 + -0.02325 \cdot \text{RPM} + 10.9992$$

$$\text{Torque (RPM)} = 1.88359e-06 \cdot \text{RPM}^2 + -0.00193 \cdot \text{RPM} + 1.18385$$

$$\text{Mechanical power (RPM)} = 2.34832e-07 \cdot \text{RPM}^3 + -0.000406925 \cdot \text{RPM}^2 + 0.44442 \cdot \text{RPM} + -130.74084$$

Formulas used to calculate FOM:

$$C_T = \frac{T}{\rho \cdot RPS^2 \cdot D^4}$$

$$C_P = \frac{P_{mech}}{\rho \cdot RPS^3 \cdot D^5}$$

$$FOM = \sqrt{\frac{2}{\pi}} \cdot \frac{C_T^{\frac{3}{2}}}{C_P}$$