

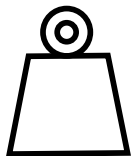
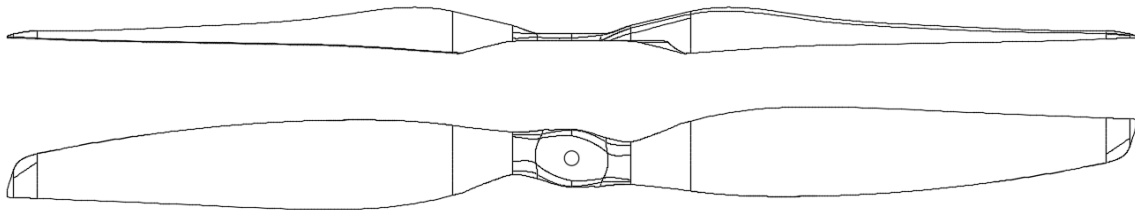


# 32x10.6 2B MC

PN:23210601, 23210602

## Product sheet

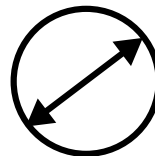
Rev.: 00  
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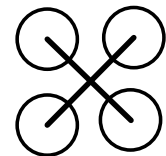
120 g  
Mass



40.6 kgf  
Max Thrust



32.0"  
Diameter



Multicopter

Engine type:	Electric
Folding/Fixed	Fixed
Rotational direction:	Counter-clockwise and Clockwise available
Weight [g]:	120 ± 10.0%
Moment of inertia [kgm <sup>2</sup> ]:	6.61e-03
Center hole [mm]:	∅ 10
Max drilling diameter [mm]:	46
Mounting:	link to possible patterns
Limit RPM (0.7 Mach at blade tip)	5600
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:  $I = \frac{1}{12} \cdot mass \cdot diameter^2$

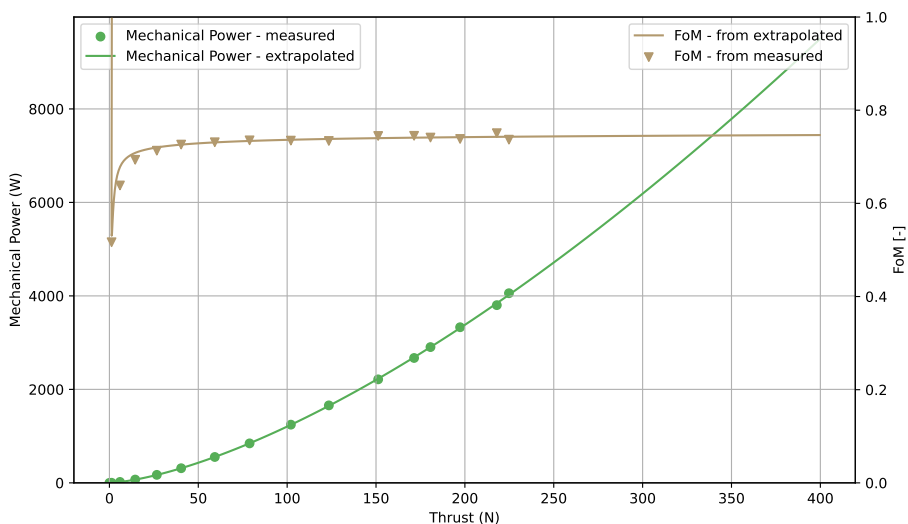
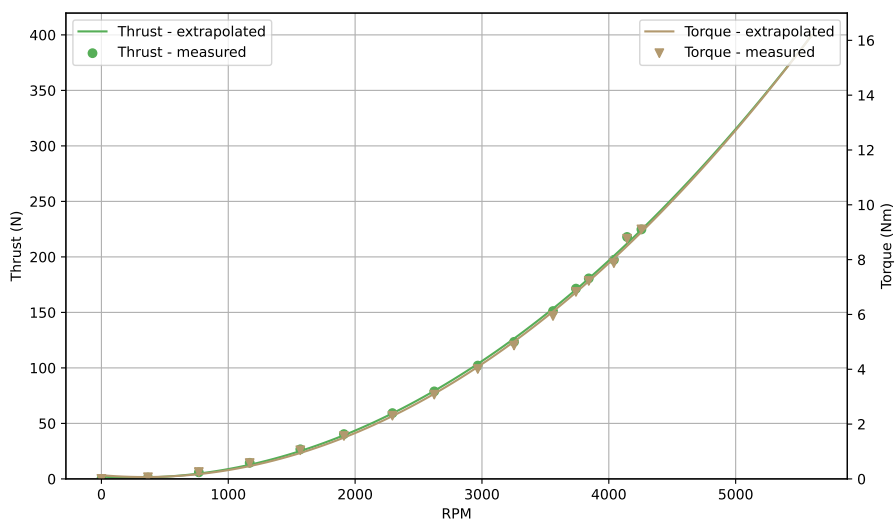


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## Measured data

Static test result



$$\text{Thrust (RPM)} = 1.3969e - 05 \cdot \text{RPM}^2 + -0.00724 \cdot \text{RPM} + 2.12707$$

$$\text{Torque (RPM)} = 5.82648e - 07 \cdot \text{RPM}^2 + -0.000396815 \cdot \text{RPM} + 0.13568$$

$$\text{Mechanical power (RPM)} = 7.33767e - 08 \cdot \text{RPM}^3 + -0.000115701 \cdot \text{RPM}^2 + 0.12043 \cdot \text{RPM} + -18.30705$$

Formulas used to calculate FOM:

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

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

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