

$$\begin{cases} U_1 = F_1 + F_2 + F_3 + F_4 + F_5 + F_6 \\ U_2 = \left(F_2 - F_1 + (F_3 + F_6 - F_4 - F_5) / 2\right) L \\ U_3 = (F_3 + F_5 - F_4 - F_6) L \sqrt{3} / 2 \\ U_4 = \tau_2 + \tau_5 + \tau_6 - \tau_1 - \tau_3 - \tau_4 \end{cases}$$

$$T = \begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 \\ -L & L & L/2 & -L/2 & -L/2 & L/2 \\ 0 & 0 & L\sqrt{3}/2 & -L\sqrt{3}/2 & L\sqrt{3}/2 & -L\sqrt{3}/2 \\ -d/b & d/b & -d/b & -d/b & d/b & d/b \end{bmatrix}.$$

## **Technical Specifications**

Frame Weight	478 g.
Diagonal Length (Motor to Motor)	550 mm.
Takeoff Weight	1200g-2400g.
Recommended Propeller	10 x 4.5 inch or 8 x 4.5 inch

$$\begin{cases}
\frac{1}{2} \\
\frac$$



$$f_{z} = f_{1} + f_{1} + f_{3} + f_{4}$$

$$E_{x} = \ell(f_{1} - f_{2} - f_{3} + f_{4}) \sin 45^{\circ}$$

$$E_{y} = \ell(f_{1} + f_{2} - f_{3} - f_{4}) \sin 45^{\circ}$$

$$E_{z} = \ell(f_{1} + f_{2} - f_{3} + f_{4})$$

$$f_{i} = K_{n} \cdot \alpha_{i}^{2}$$

$$f_{i} = K_{m} \cdot \alpha_{i}^{2}$$

$$\begin{cases}
\vec{k} = k_{11} - 2i \\
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