GUI_Modeling

Quadcopter Modeling

Moments of Inertia

Unit System

(•) SI ( ) English

Motors

m	73	g
dm	22	cm
h	3	cm
r	1.5	cm

ESC's

m	30	g
a	2.5	cm
b	6	cm
ds	8	cm

Central HUB

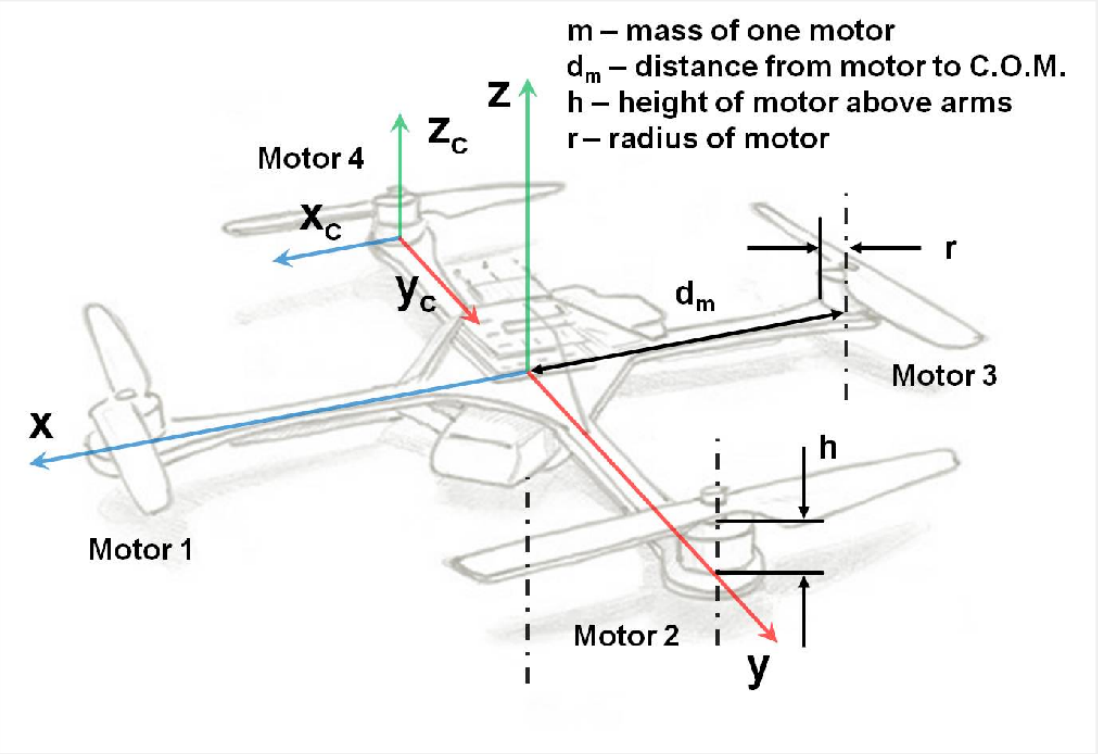
m	430	g
r	6	cm
H	4	cm

Arms

m	45	g
r	3	cm
L	19	cm
da	5	cm

Select which graphic to display below:

(•) Motors ( ) ESC's ( ) Central HUB ( ) Arms



Motor Test Data (SI units only)

Ct	1.5e-07	N/RPM^2	Cr	80	RPM/%	Time Constant	0.076 s
Cq	3e-09	N*m/RPM^2	b	976	RPM	Min Throttle	5 %

Calculate | Clear All

Gross Weight 1.022 kg

Jx	0.0093886	kg*m^2
Jy	0.0093886	kg*m^2
Jz	0.018406	kg*m^2

Save as "+" | Save as "X" | Load Model