Link for matos

<http://www.robotshop.com/en/radiolink-t6ehp-e-24g-6ch-transmitter-r7eh-receiver.html>

<http://www.robotshop.com/en/uav-brushless-motor-a1510-2200kv.html>

<http://www.robotshop.com/en/m10a-10a-multicopter-esc.html>

<http://www.suppomodel.com/ESC/escmenu.html>

<http://www.robotshop.com/en/10x45-quadcopter-propeller-kit.html>

<http://www.robotshop.com/en/arduino-uno-usb-microcontroller-rev-3.html>

<http://www.robotshop.com/en/6-dof-gyro-accelerometer-imu-mpu6050.html>

<http://www.robotshop.com/en/dfrobot-7-4v-lipo-2200mah-battery.html>

<http://www.robotshop.com/en/74v-lipo-battery-charger.html>

Tuto drone

<http://www.robotshop.com/blog/en/make-uav-lesson-1-platform-rtf-arf-kit-custom-13989>

tuto Arduino

<http://www.benripley.com/diy/arduino/three-ways-to-read-a-pwm-signal-with-arduino/>

<https://playground.arduino.cc/Main/ArduinoPinCurrentLimitations>

webstore

<https://hobbyking.com/en_us/catalogsearch/result/?q=carbon+fiber&order=relevance&dir=asc&___store=en_us>

[http://www.hyperion-world.com/#](http://www.hyperion-world.com/)

approximate weight without frame ~300 g

prop thrust

<http://www.gobrushless.com/testing/thrust_calculator.php?prop=15&rb1=1&Value=5000&Altitude=0&submit=Calculate+Now>

rpm = 2200Kv \* (3?)V \* (load%)~=6000

thrust~=4\*620\*0.8 g =1984 g (@200 m) (0.8 due to interference btw them)

maximum ideal frame weight ~= 690 g

Volume

sphère de 610 ou 300 mm diamètre minimum (problème d’unité!)

batterie pas assez de courant fourni

5C->5\*2.2A=11A

max = 4\*6=24A

To buy

Escs

<https://hobbyking.com/en_us/turnigy-multistar-esc-programming-card.html>

<https://hobbyking.com/en_us/blheli-s-10a.html>

imu

<http://www.robotshop.com/eu/en/imu-breakout-board-mpu-9250.html>

battery

<https://hobbyking.com/en_us/zippy-compact-2200mah-3s-25c-lipo-pack.html>

<https://hobbyking.com/en_us/hobbykingr-b3ac-compact-charger-eu-plug.html>