**RULES:**

**Bold:** title, divide by modules

<hyperlink>: link to store

normal font: required parts

~: indicate required operations. Do not repeat if mentioned above.

~~Deleted~~: will not use, for recording purpose only.

√: acquired

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**Structure**

Steel angles

Bolts and nuts

~ Cutting

**Charging system**

Momentum wheel

[DC brushless motor](https://www.maxongroup.com/maxon/view/product/339286) (with sensor)

[Motor control](https://www.maxongroup.com/maxon/view/product/control/Positionierung/360665)

~~Gear~~

[bearing](https://uk.rs-online.com/web/p/ball-bearings/1440834)

bearing housing (3D print)

~ Drilling, 3D printing

**Braking system**

[Gear Rack](https://uk.rs-online.com/web/p/gear-racks/1827858?cm_mmc=UK-PLA-DS3A-_-google-_-CSS_UK_EN_Mechanical_Power_Transmission_Whoop-_-Gear+Racks_Whoop-_-1827858&matchtype=&pla-300400303830&cq_src=google_ads&cq_cmp=12814832398&cq_term=&cq_plac=&cq_net=g&cq_plt=gp&gclid=Cj0KCQjwr4eYBhDrARIsANPywCiryagycTmytEPKE6IaNPlsm7Dfk8f31DFT7FBTo0WtTeoF4eK13UoaAvxnEALw_wcB&gclsrc=aw.ds) module ?

[Linear rail guide](https://www.amazon.co.uk/Miniature-Bearing-Sliding-Printer-Machine/dp/B08PCQ9528/ref=sr_1_11?crid=RHNHSUVOPUES&keywords=Linear+Bearings+Linear+Rail+Guide&qid=1661180850&sprefix=linear+bearings+linear+rail+guide%2Caps%2C76&sr=8-11)

[Servo](https://uk.rs-online.com/web/p/servo-motors/7813046)

~~Linear actuator~~

**Control system**

Raspberry Pi Zero 2 W √

Micro SD card + reader

[Gyroscope MPU6050](https://www.amazon.co.uk/mpu6050/s?k=mpu6050)

Power source (battery/USB)

~ Soldering