

## Micro Tricopter (Sub-250g)



InducedRug

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## Summary

Designed this to try and 3D print a sub-250g tricopter (Transport Canada Reg.)

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Tags: [drone](#) [tricopter](#) [microtricopter](#)

Printed in PLA with 2 shells, and ~10% infill at 215C

(Slicer settings will need tweaking for optimal strength)

Non-printed parts list (Some parts may be substituted):

8 M3 Nylon Nuts

4 M3x16mm Screws

3 Brotherhobby Returner R3 1106

3+ Compatible Propellers

MG90S Servo

3 ~6A ESC

Aikon F4 Flight Controller

30x30mm Mounting Hole Power Distribution Board

Female XT30 Connector

Some ~22 Gauge Wires

Some ~18 Gauge Wires

~850mAh 3Cell LiPo

Compatible transmitter/receiver for your remote  
Small ~10cm Zipties

Some notes on assembly:

The servo horn will need to be trimmed and CA glued to the rear motor mount

(The servo horn screw is still acessable)

I cut the servo wire and used the header to mount the transmitter/receiver

My Assembled Weight: 168.9g (My vary based on a lot of factors)

Message or comment any (hardware) questions you have

The tethered test flight was sketchy software and control-wise but the frame held up.

Note:

Betaflight doesn't like me or my weird servo setup.

Any help regarding getting betafight to play nice would be appreciated

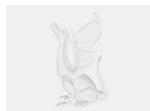
## Model files



**micro-tricopter-main-body-v41.stl**



**micro-tricopter-rear-motor-mount-v41.stl**



**micro-tricopter-v41.step**

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