



## ModulAnt - Modular Antweight Combat Robot - 150g

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updated 28. 7. 2025 | published 28. 7. 2025

### Summary

The newer revision to ModulAnt, now with more space for batteries, armour attachment points and weapon configurations.

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#### Now with 100% less motor Mounts!\*

The revised Body is through testing and now no longer requires fiddly motor mounts. The body works with both N10's and N20's, just clip the little tab out of the way if using with N20's.

Modulant is designed as a Beginner robot, with the capability to be built into a destructive robot as you gain more confidence in the sport.

Designed in partnership with Accu, who have published an article on how to build one of these.

Some example configurations:

- Simple Wedge Robot

- Servo Based Flipper / Hammer
- Motor Based Hammer / Flipper
- Overhead Horizontal Spinner
- Vertical Spinner
- Hammersaw

All parts are designed to be joined with **2.5 x 8mm Polyfix screws**. I would recommend that wedges and armour panels are made out of Polycarbonate sheet, with the printed templates used as guides.

Depending on the configuration, Titanium makes a very effective anti-horizontal wedge, and with the addition of some acetate allows for a very effective ground game.

I've switched to using tapped M2 switches rather than an M2 Nut and bolt as it makes assembly so much easier.

[Quick order Link for the Horizontal Variant's Hardware here.](#)

Redesigned Lids for pusher based robots and Servo Based robots with battery access flaps added as per request - there are options for Left, Right and Double Openings.

## Model files



### Legacy Parts

1 file



#### modulant-body-18\_04\_25.stl

☐ Base Body for all configurations



### Alternative Lids

10 files



#### servo-holder.stl

☐ Servo hold-down for the servo lid



#### servo-lid.stl

☐ Lid for the BBB HV Metal servo (untested). Requires Servo Holder



### hammersawlid.stl

☐ Lid for Hammersaw or other Motor controlled arm configuration. Mount holes for an N10/N20 motor



### lid-2-openings.stl



### lid-l-opening.stl



### battery-flap-l.stl



### battery-flap-r.stl



### lid-r-opening.stl



### battery-flap-r-fancy.stl



### servo-lid-battery-flap.stl



## Wedges and Armour Pieces

7 files



### **wheely-guard.stl**

☐ Rear Guards for large (40mm+) wheels



### **tpu-arm-r.stl**

☐ Long Right Arm for anti-horizontal Configurations



### **tpu-arm-l.stl**

☐ Long Left Arm for anti-horizontal Configurations



### **tpu-wedge.stl**

☐ Basic Wedge



### **anti-horizontal-wheel-guards-r-modulant.stl**



### **anti-horizontal-wheel-guards-modulant.stl**



### **pushing-arm-wedge.stl**

☐ Used in conjunction with the wedge configurations, also allows for a magnet to be attached



### **modulant-lid.stl**

☐ Basic Lid



### **hammersaw-arm.stl**



### **cradle.stl**

☐ Cradle to hold robot in pits

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### **servo-flipper-arm.stl**

☐ Servo Flipper Arm - M2.3x12 screw required for attaching to servo, use servo ST screws for horn

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### **modulant-body-integrated-motor-mounts.stl**

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