

## Evantis XOL Toolhead



Sir\_Wash

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updated 22. 10. 2023 | published 22. 10. 2023

### Summary

The next iteration in my toolhead designs that combines the mantis xol with a modular and easy to adapt system like EVA.

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[xoltoolhead](#) [evantis](#) [evantisxol](#) [g2sa](#) [doublefoldedascender](#)  
[dfa](#) [biquprobe](#) [crazyvolcano](#)

Last Update: 10/21/23

Current Issues - Nothing report as of now.

### **Carriage Compatibility**

MGN12(H/C)

MGN9(H/C)

### **Hot End Compatibility**

Rapido HF & UHF

Dragon HF & UHF

Dragonfly BMO

Revo Voron

Revo Micro

Bambu

Mosquito/Magnum

Copperhead

Dropeffect XG

Nova

Crazy Volcano

### **Extruder Compatibility**

Sherpa Mini

Sherpa Micro

Double Folded Ascender

Vz-Hextrudort

LGX-Lite

LGX

BMG

Galileo 2 (G2SA)

Orbiter V2.0

Orbiter V1.5

Phaetus Apus

Sailfin

Hummingbird

### **Probe Compatibility**

Klicky/Un-Klicky

Euclid

Bltouch

Biqu Micro Probe

8mm Inductive Probe/Superpinda

### **Questions?**

Please leave a comment or join the Zero G discord and head to the micro mantis page in the community section.

### **Background:**

Toolhead was created for my Zero G Mercury 1.1.5 that normal uses the EVA2.4 system however with the fans being located at the rear of the tool head the fans will hit the ab motors if you want more than just one part cooling fan on the back. The mantis addresses this issue with placing the fans on the front however I then loss y movement due to the fact the toolhead is all on the front of the extrusion. This hopefully this is the just right tool head for my setup and yours.

### **Work In Progress:**

#### **Hot End Compatibility**

Revo Six/V6

#### **Extruder Compatibility**

Bowden

#### **Probes**

CR-Touch

### **Future Plans:**

CPAP

Berd

**Not seeing what you are currently running? Feel free to reach out and I can see what I can do!**

**Want to help?**

If something isn't working compare the file, you printed to what is currently on this page as I am constantly making changes based on user feedback and what I am able to catch after the fact. If nothing has changed, please reach out to me so I can make the necessary changes.

If you have any questions or problems, please don't hesitate to comment as this will help me improve the tool head for everyone. That being said if you want a different type of extruder or hot end let me know and share a CAD file of it with me and I can see what I can do. Please recommend any other features you'd like included with this.

Support me on Ko-Fi if you find value in what I am doing.

[https://ko-fi.com/sir\\_wash](https://ko-fi.com/sir_wash)

## This remix is based on



**EVA**



**GitHub - jlas1/Klicky-Probe: Microswitch probe with magnetic attachment, primarily aimed at CoreXY 3d printers**



**GitHub - CorvidBuilds/Mantis-Xol: Modification of the Mantis toolhead by Long/Mandryd for 4010 blowers and other miscellaneous adjustments**



printers

**GitHub - jlas1/Klicky-Probe: Microswitch probe with magnetic attachment, primarily aimed at CoreXY 3d**



**GitHub - jlas1/Klicky-Probe: Microswitch probe with magnetic attachment, primarily aimed at CoreXY 3d printers**

## Model files



**Hotend Mounts**

13 files



**rapido-hf-uhf-mount.stl**

☐ Rapido UHF will use UHF ducts



**rapido-hf-uhf-mount-120-degree.stl**

☐ Rotates the Rapido mounting holes for better thermistor/heater positioning.



**dragon-uhf.stl**



**dragon.stl**



**bmo-dragonfly.stl**



**revo-voron.stl**



**revo-micro.3mf**



**bambu.stl**



**mosquito.stl**



**copperhead.stl**



**dropeffect-xg.stl**



**nova.stl**



**crazy-volcano.stl**



**2 part Faceplates**

4 files



**bmo-dragon-face-plate.3mf**

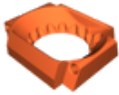


**rapido-dragon-uhf-copperhead-crazyvol-face-plate.3mf**

☐ Model from <https://github.com/CorvidBuilds/Mantis-Xol>



**revo-voron-micro-bambu-mosquito-nova-face-plate.3mf**



**xg-face-plate.stl**

☐ Model from <https://github.com/CorvidBuilds/Mantis-Xol>



## Belt Plate & Clamps

4 files



**belt-plate.stl**



**indented-belt-plate-for-bmo-dragon-copperhead-nova.stl**



**belts-clamps-v2.3mf**

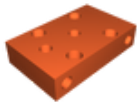


**bambu-belt-clamps.3mf**

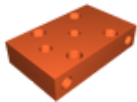


## Rail Carriage Mounts

8 files



**mgn12h-rail-carriage-w-integrated-endstop.stl**



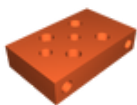
**mgn12h-sensorless-rail-carriage.stl**



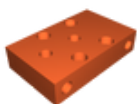
**mgn12c-rail-carriage-w-integrated-endstop.stl**



**mgn9h-sensorless-rail-carriage.stl**



**mgn9h-rail-carriage-w-integrated-endstop.stl**



**mgn12c-sensorless-rail-carriage.stl**



**mgn9c-rail-carriage-w-integrated-endstop.stl**



**mgn9c-sensorless-rail-carriage.stl**



## Extruder Plates

11 files





### **sherpa-mini-extruder-mount.stl**

☐ Works with Galileo G2SA as well

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### **sherpa-micro-extruder-mount.stl**



### **sailfin-extruder-mount.stl**



### **double-folded-ascender-extruder-mount.stl**



### **vz-hextrudort-extruder-mount.stl**



### **orbiter-2-extruder-mount.stl**

☐ Works with Galileo G2SA as well

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### **orbiter-15-extruder-mount.stl**



### **lgx-extruder-mount.stl**



### **lgx-lite-extruder-mount.stl**

☐ Works with Hummingbird as well

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### **bmg-extruder-mount.stl**



**apus-extruder-mount.stl**



**Back Plates and Probes**

7 files



**back-plate-blank.stl**



**bltouch-standard.stl**



**bltouch-uhf.stl**



**biqu-micro-probe-standard.stl**



**biqu-micro-probe-uhf.stl**



**8mm-inductive-probe-standard.stl**

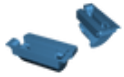


**8mm-inductive-probe-uhf.stl**



**Ducts**

2 files



### **standard-fan-ducts.3mf**

☐ Everything unless mentioned; check hotend section. Model from <https://github.com/CorvidBuilds/M>

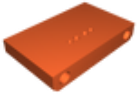


### **uhf-fan-ducts.3mf**



## **Bottom Plates and Probes**

5 files



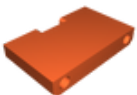
### **klicky-probe.stl**



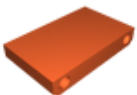
### **klicky-probe-uhf.stl**



### **euclid-probe.stl**



### **biqu-micro-probe.stl**



### **blank-plate.stl**



STEP Files

1 file



blank-extruder-plate.step

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