VzBoT3D / Goliath

Code Issues Pull requests Actions Projects Security and quality Insights

Goliath

Public

Watch 11 Fork 7

About

The Goliath Hotend

hotend

Readme

License

Activity Custom properties

126 stars 11 watching 7 forks

Report repository

main 2 Branches 0 Tags Go to file T Go to file Add file Code

simonvez Add files via upload f49cafc · last year

CAD	Add files via upload	last year
Resellers	Update README.md	2 years ago
STL	Fix and improve some more pages (#5)	2 years ago
LICENSE.md	Add license file, add license to readme (#8)	2 years ago
README.md	Update README.md	2 years ago
brief-instructions.md	Fix and improve some more pages (#5)	2 years ago
resellers.md	Update resellers.md	2 years ago

README License

Goliath

A high-flow oriented hot end by the VzBoT-team and manufactured by Mellow3D

How does this go together? Goliath Assembly - VzBoT Docs)

What do I mount this on? Printed Vz-Printhead or CNC Vz-Printhead

Where can I buy one? Check the Resellers list

Don't forget the Fan shrouds

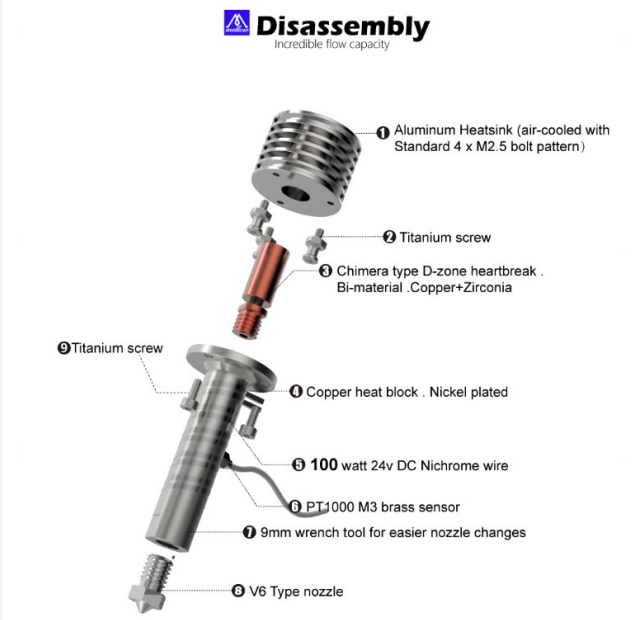
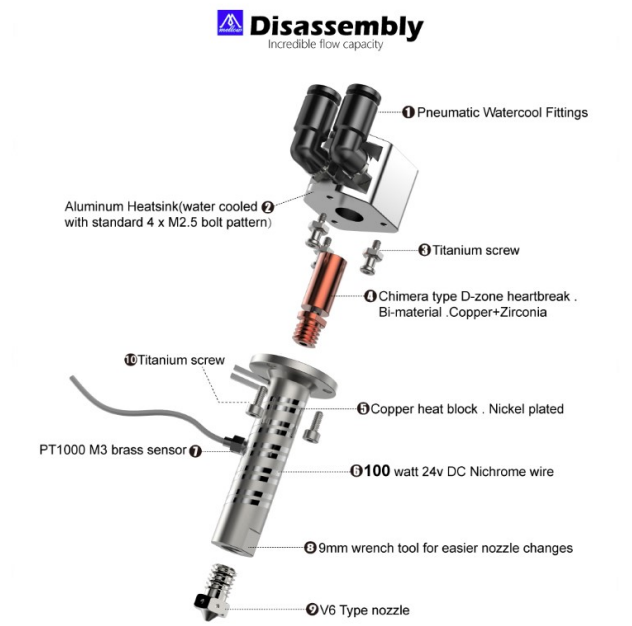
Notes

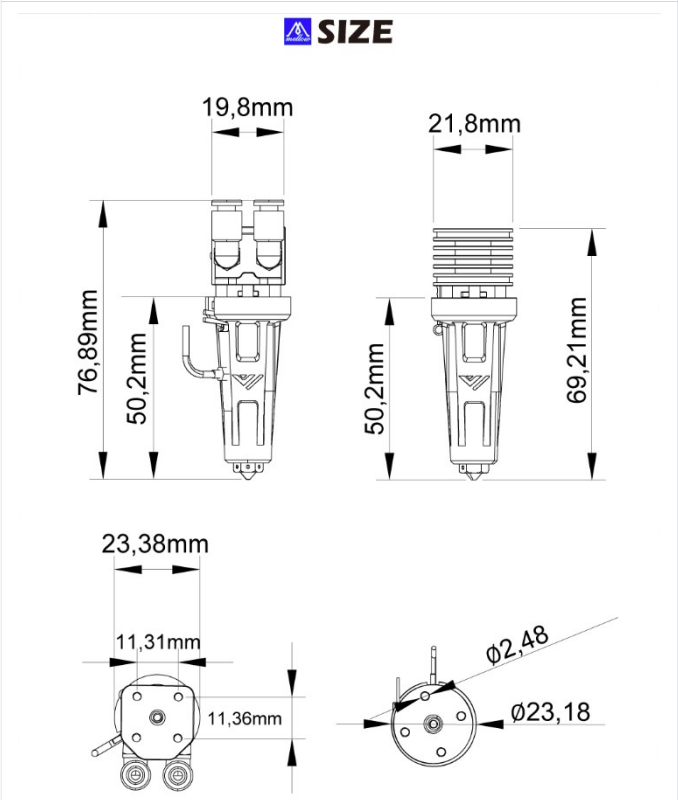
- The Nichrome wire sticking out can be bent to the desired shape. Be careful not to over do it as it can break if bent multiple times. Also keep in mind that this section of the heater will be hot, so place/bend it to a safe position.
- PT1000 Sensor should be installed after the silicon sock. It should be tighen with hand or very gently with a wrench. It is M3 thread and too much torque can cause the thread to strip
- Silicon sock is rated up to 300C. While the Goliath can technically handle up to 500C, you should always remove the silicon sock if you plan to use it for ultra high temp. A glass fiber sleeve could be use if you need to isolate it.
- The heatblock can be rotated to have the wires facing the desired direction. You will need to dissasemble the unit to rotate it.
- Silicon thermal paste can applied between the heatbreak and heatsink. Using other type of coumpound might make it really hard to remove heatbreak later.
- Heatbreak is fragile and brittle but extremely tolerant to abrassion and heat. If you have issues removing it from the heatsink, you can help it by pushing from the top where the PTFE tube comes in. DO NOT try to pull hard on it from the bottom of the heatsink or you might

seperate the zirconia throat from the copper section.

- Water heatsink uses PL4-M5/PC4-M5 fitting type. Meaning that the thread size on the block is M5 and the tube OD is 4mm. You can switch to something else if you wish but it will need to be M5 thread type fittings.

Overview

Air cooled	Water cooled
	





Fan shrouds

The air-cooled Goliath heatsink need a fan to keep it cool. These shrouds let you mount a fan on to the Goliath air-cooled heatsink.

Generic fan shrouds

- 20mm x 10mm fan: Goliath fan shroud 2010

- 25mm x 10mm fan: Goliath fan shroud 2510

Vz-Printhead fan shrouds

- For CNC Vz-Printhead: Goliath fan shroud 2510 - for CNC Vz-Printhead
- For Printed Vz-Printhead: Goliath fan shroud 2510 - for Printed Vz-Printhead

Vz-Printhead on GitHub:

- CNC VZ-Printhead
- Printed VZ-Printhead

Can't find what you're looking for? Check out the user Mods repository.

Marketing images

Courtesy of Mellow3D





Display



Display



AIR-Packing list /包装清单



▾ **Hotend list**

Aluminum Heatsink （air-cooled） 铝散热片(风冷)	x1
Copper heat block+ 100 watt 24v DC Nichrome wire 铜加热块+100W 24V直流镍铬电线	x1
300℃ Silicone socks 硅胶套	x1
Chimera type D-zone heartbreak 奇美拉型D-ZONE热隔断	x1
V6 Type nozzle V6型喷嘴	x1
PT1000 M3 brass sensor PT1000 M3黄铜传感器	x1
Custom screw(Titanium Alloy)for heat block 用于加热块的定制钛合金螺丝	x3
Positioning titanium metal screws 定位钛金属螺钉	x3

▾ **List of accessories**

M2.5x5	x4
2.0 Allen key 2.0六角螺丝刀	x1
1.5 Allen key 1.5六角螺丝刀	x1
4/5.5 Hexagon wrench 4/5.5六角扳手	x1
6/7 Hexagon wrench 6/7六角扳手	x1
Self locking tie 自锁型扎带	x2
molex 2 pin terminal molex 2 pin 端子	x1
Thermal conductive silicone grease 导热硅脂	x1

Water-Packing list /包装清单



▾ **Hotend list**

Axminum Heatsink （water cooled） 铝散热片（水冷）	x1
Pneumatic Watercool Fittings 气动水冷配件	x1
Copper heat block+ 100 watt 24v DC Nichrome wire 铜加热块+100W 24V直流镍铬电线	x1
300℃ Silicone socks 硅胶套	x1
Chimera type D-zone heartbreak 奇美拉型D-ZONE热隔断	x1
V6 Type nozzle V6型喷嘴	x1
PT1000 M3 brass sensor PT1000 M3黄铜传感器	x1
Custom titanium alloy screw for heat block 用于加热块的定制钛合金螺丝	x3
Positioning titanium metal screws 定位钛金属螺钉	x3

▾ **List of accessories**

M2.5x5	x4
2.0 Allen key 2.0六角螺丝刀	x1
1.5 Allen key 1.5六角螺丝刀	x1
4/5.5 Hexagon wrench 4/5.5六角扳手	x1
6/7 Hexagon wrench 6/7六角扳手	x1
Self locking tie 自锁型扎带	x2
molex 2 pin terminal molex 2 pin 端子	x1
Thermal conductive silicone grease 导热硅脂	x1





Releases

No releases published

Packages

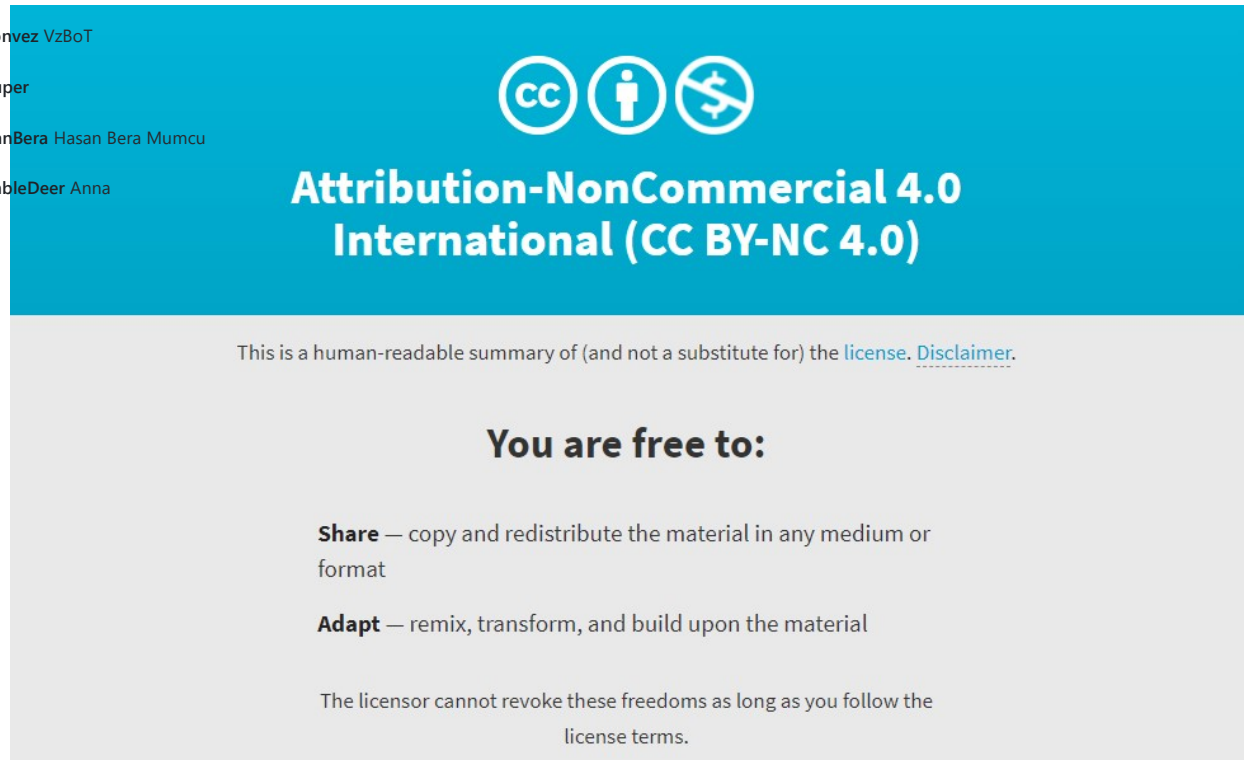
No packages published

Contributors 4

- simonvez VzBoT
- pbsuper
- HasanBera Hasan Bera Mumcu
- HumbleDeer Anna

License

This project is licensed under the Creative Commons Attribution Non-Commercial (CC BY-NC 4.0) license. Exceptions apply only for our approved distributors and manufacturers.



https://creativecommons.org/licenses/by-nc/4.0/