

HI-flow Extruder-Head For ANYCUBIC i3 MEGA



NewSpeak

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Summary

Light weight & High Cooling air flow extruder head For ANYCUBIC i3MEGA .
==ATTENTION== Print cooling fan air flow is...

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Light weight & High Cooling air flow extruder head For ANYCUBIC i3MEGA .

==ATTENTION==

Print cooling fan air flow is too strong in 100% fan speed.

You have to change cooling settings after install this Mod.

(ex:regular fan speed:20%,max:50%)

- CONCEPT
 - Best Extruder-Head with original cooling fan.
- TECHNICAL POINT
 - 15deg angled Heat-sink cooling fan. Fan and heat-sink center are allined.
 - Smooth heat-sink cooling duct.

- 45deg angled print cooling fan and smooth print cooling duct.
- no additional parts. Fans and bolt, nuts, you can reuse from original.
- RESULT
 - +High air flow in Heat-Sink & Print Cooler
 - +Better Overhang. High flow cooling duct. (80deg overhang are enable to print at 0.1mm layer hight)
 - +Reduced Weight 40grams .Print accuracy will become better.
 - +Offset extruder 5mm to Y-Rod . Print accuracy will become better.
 - -Offset extruder 5mm to Y-Rod. Print area is become small in Y direction 5mm.
- PRINT SETTING RECOMMEND
 - Retraction length default-->3.5mm
 - Please tune Nozzle heater PID after installing this MOD.
 - Stop print cooling fan at first layer.(ex: Regular fan speed at height :1mm)
 - Regular fan speed :20%
 - Max fan speed :40%
- UPDATE
 - 2019/03/30
 - Added X limit switch pusher.
 - Heat sink holder fixing improvement.
 - Print cooling fan air flow direction improvement.
 - Print stability improvement. (added small slit in first layer.)
 - Cable fixing slit improvement.
 - 2019/04/09
 - Add intake shroud for heat-sink cooler.
 - Split print cooling nozzle.
 - Cable fixing slit improvement.
 - Add "Non-Offset" version Main-body.

Please try and feedback anything!

Print Settings

Printer Brand:

Anycubic

Printer:

All-metal Mega

Rafts:

Doesn't Matter

Supports:

Yes

Resolution:

0.2mm

Infill:

15%

Filament: PLA/ABS/PETG/nGen

Notes:

Cooling own parts , so PLA is enable.
PETG or more high temp-resist material is better.

Category: 3D Printer Extruders

Model files



holder-heat_sink.stl



brkt-printcooler.stl



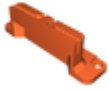
main-body_5mmoffset.stl



main-body_no-offset.stl



ai3m_extruder-head_set_n3wsp3ak.step



holder-cable.stl

[Find source .stl files on Thingiverse.com](#)

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