Hero Me Gen7 Platform Release4

MediaMan3D

VIEW IN BROWSER

updated 1. 10. 2024 | published 1. 10. 2024

Summary

Hero Me - Modular printhead platform for 3D printers, hot ends, extruders, ABLs, fan ducts, ADXL345 boards, & much more!

3D Printers > Other Printer Parts & Upgrades

Tags: extruder dragon bmg bondtech tevo tornado geeetech cr10 i3 hero e3d hotend tarantula creality pinda fan e3dtitan cooling 5 bowden cr10s cr10spro reprap xaxis mosquito penplotter titan anycubic e3dhotend e3dv6 6 ender3 endoscope 7 mgn9h mgn12h hypercube aneta8 hypercubeevolution crealitycr10 hotendmount aneta8upgrade tevotarantula tronxy directdrive bltouch bltouchmount bondtechextruder neptune bondtechbmg bondtechbmgextruder corexy coolingfan dragonfly xcarriage anycubici3mega crealityender3 directdriveextruder coolingduct openbuilds alfawise alfawiseu20 alfawiseu30 e3dvolcano ender5 ezabl tevotornado neo zesty

titanextruder sn04n hotendcooling partcooling
nozzlecooling mutant biqu dyzend dyzedesign
sainsmart petsfangbullseye trianglelab crealityender5
bowdenextruder partcoolingfan geeetecha30 geeetecha20m
geeetecha10 afterburner elegoo ender3pro herome
gantry voron crealitycr10s blvmgncube blvmod blvmgn
sovol copperhead printermods mosquitohotend
sliceengineering penplotterholder me matterhackers cr20
omron ender5plus magnum seckit zyltech microswiss
crealityender3pro sapphireplus twotrees twotreessapphire
twotreessapphirepro cr10sprov2 crealityender5plus
partcoolingduct mgn12c ezrstruder heromegen5 cr10v2
sapphirepro bmgextruder ender5pro kobra bluer sunlu
longer sherpa ender3v2 crealityender3v2 kingroon
kingroonkp3s seckitskgo labists labistset4 phaetus
eryone ender5upgrades beacon x5sa aquila
microswissdd taichi lgx hevort alfawiseu30pro hmg5
biqub1 orbiter cr6se ender6 ender3upgrade voxelab
hextrudort elegooneptune2 neptune2 dragonhotend
twotreesbluer dropeffect cr10max voxelabaquila xchange
heromeremix phaetusdragonflybmo phaetusdragon sailfin
bondtechlgx tronxyx5sapro ender2pro sunlus8
nimbleadapter nimbleextruder pindamount anycubicvyper
ender3max cr10v3 eryoneer20 eryonethinker
eryonethinkerse crealitycr10sprov2 sn04 e3drevo crtouch
hermitcrab rapido sidewinderx2 coreception
sainsmartcoreception endoscopemount microswissallmetal
lgxlite bondtechlgxlite vyperupgrade longerlk5pro
stealthburner zestynimblev2 magnumplus bmgclone
mercuryone elegooneptune2s microswissdirectdrive

neptuneapex kywoo petsfangv2 twotreessapphireplus voronstealthburner trianglelabs crtouchmount longerlk1 euclid dragonflybmo dragonflyhotend anycubickobra phaetusdragonflyhic hotendcover crealityspider exoslide zestynimblemount phaetusdragonflybms crealityupgrades enderupgrade zyltechgear bmgm trianglelabsdragon phaetusdragonhotend euclidprobe gantryadapter tbglite zestynimble haldis microswisshotend heromegen6 ender2proupgrade coreception300 sovolsv05 tchc neptune3 redlizard elegooneptune3 hmg7 ender3v2neo 3dfused heromegen7 herome7 sailfinextruder ender3maxneo sovolsv06 chc gen7 ender3neo kobrago elegooneptune3pro neptune3pro apus spider3hotend neptune3max vzhextrudort touchmi tasensor hallon lantro hmg6 herome6 boothyboothy knigroonkps3 neptune3plus tbgs beacon3d efit advanced3dprinting spiderceramic spiderspeedyceramic a3dp dyzextruder dropeffectxg sovolsv06plus cr10sproupgrade zestyflex spider4pro sovolsvo6 flexv3 zestynimblev3 spider3pro phaetusapus fxd herogen6 herogen7 ezable ezablpro crealityefit xy08m chcmini pulsexe

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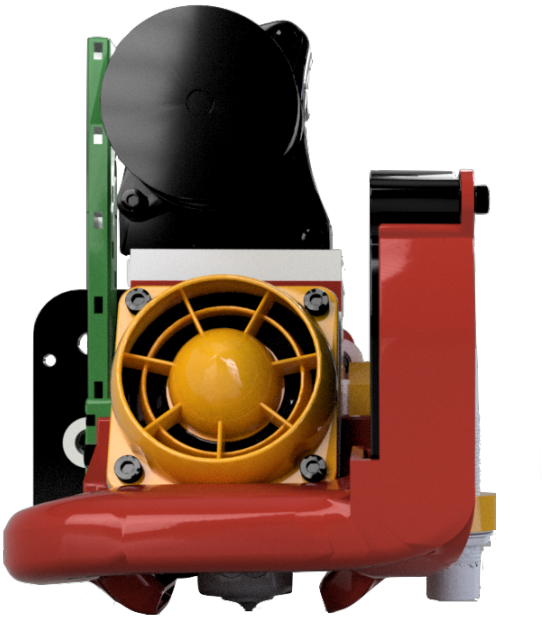
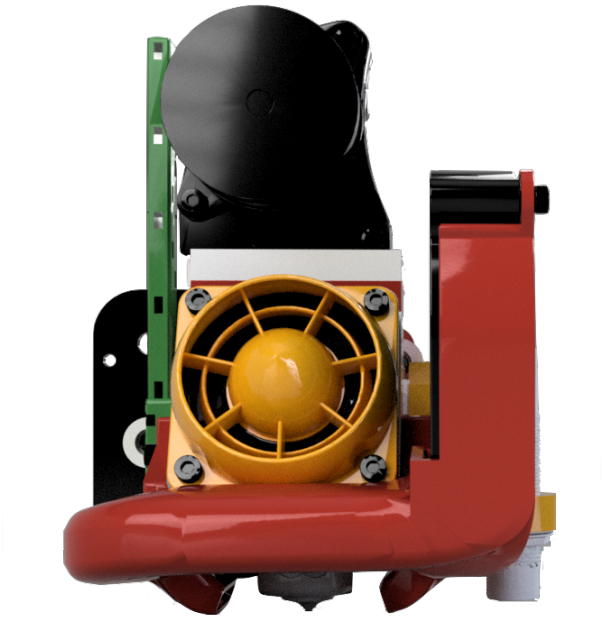
Hero Me Gen7.4 is a modular printhead platform for 3D printers with excellent part cooling and the most compatibility across 3D printers, hot ends, extruders, ABLs, and other components.



The Hero Me Gen7 is all about choice and personal preference. If you have been upgrading your 3D printer, you've made choices about what is important to you, Your choices are likely going to be different from everyone else. When choosing a hot-end, extruder, and ABL combo (not to mention fans and accelerometers), where are you going to find a printhead platform that will accommodate all your selected components (which could be a rare combo), for your specific 3D printer AND provides part cooling that gives you great print results. **This is what the Hero Me Gen7 is all about!**

The Hero Me Gen7 printhead platform replaces your 3D printer's stock printhead as supplied by the manufacturer. Most stock printhead components, such as the hot end, bed level sensor, and fans can be reused with the Hero Me if desired, or completely replaced with higher quality 3rd



party components.

Think of the Hero Me platform as Lego blocks for printhead assemblies, there are mounting parts for each component (hot end, extruder, fans, ABL sensors, etc.) that stack and mount to the core Hero Me Base. Component-specific mounting parts can be interchanged for another of the same type. So, should you change your component selection(s) in the future, you do not have to start over, you simply replace the single STL mount that is matched to the new component. There is no need to yet again go looking for a new set of mounting hardware that was not likely to have been designed to work with each other in the first place.

Updated Aug 3rd, 2023:

Hero Me Gen7 Documentation: You can get a detailed 56-page parts selection and illustrated assembly guide by supporting me here on Printables by clicking on the orange **Support and Join Club button** in the left column for as little as $5 here on Printables or if you prefer Patreon or Thangs.

If you become an All-Access Club supporter, you also get assembly videos, private Discord server access, direct technical support, as well as exclusive access to new releases 30 days before being posted to Printables, Thangs, and other STL libraries. Membership is available via Printables or Patreon or Thangs.

Or if you prefer, you can purchase the Hero Me Gen7 parts selection and illustrated assembly guide in the Printables Store here: **https://www.printables.com/model/529268-hero-me-gen74-documentation**

UPDATED July 14th, 2023:

Uploaded Hero Me Gen7 Release 4. This release has 187 new STLs and 50 updated STLs since Release 3 and a total of 328 new and updated STLs since Release 2.

- **29 new 3D Printers/models and X carriage options**
- **16 new Hot ends**
- **8 new Extruders**
- **6 new ABL sensors/probes**
- **Plus many improved STLs.**

Check out the V1.6 Change Log and 7.4 Printer-Component support docs for all the details.

Here is the latest install and review of the Hero Me Gen7 by Michael from TeachingTech! (Starts at the 4 minute mark)

Below is a 10-minute overview of the Hero Me platform when I spoke with Joel the 3D Printing Nerd at RMRRF in April 2023.

So to give you a choice and fulfill your personal preferences in 3D printing, the Hero Me Gen7.4 now supports over 115 3D Printer models (plus clones), 47 Hot Ends, 37 Extruders (over 45 mount options), 20 ABL Sensors (34 mount options), 35 Part Cooling Duct options, 12 Cable Management options, 14 ADXL345 mounts, and 4 LED bar mounts (among many other options).

Watch this clip for proof that the Hero Me provides the best part cooling possible.

https://youtube.com/clip/Ugkx0NFEqadxJbh9YY3L7-5i9Ui0j1Av_cl3

Can your printer do this? 240mm, no support, no sagging. With part cooling like this, the Hero Me Gen7 can properly cool anything you print.

Documentation: The Zip file containing all the Hero Me Gen7 STLs is organized into folders by component category, with sub-folders by Brand and Type. Individual STLs have very descriptive filenames to make it easy to find the parts you need. If you want detailed illustrated documentation to help you select and assemble the Hero Me Gen7 for your specific 3D printer, you can get a 56-page parts selection and illustrated assembly guide by supporting me here on Printables by clicking on the orange Support and Join Club button in the left column of in my Profile view https://www.printables.com/@MediaMan3D for as little as $5 or on Patreon.

If you become an All-Access supporter for just $5 more, you also get assembly videos, private Discord server access, direct technical support,

as well as exclusive access to new releases (including Gen7.3 and more) 30 days before being posted to Printables, Thangs, and other STL libraries. In my Profile view here on https://www.printables.com/@MediaMan3D or https://patreon.com/MediaMan3D or https://thangs.com/designer/MediaMan3D

X Carriage Weight: For those who may think that the Hero Me is heavy, I can see why you think that, but the Hero Me is comparatively quite light. A full complement of printed parts (with threaded inserts) for a dual fan, hot end/direct drive configuration, with ABL, ADXL, and LED mounts is just under 87 grams.

The Hero Me Gen7 is lighter in total weight than many stock printhead setups and most other replacement setups. A simple Bowden setup with no ABL can be as few as just 4-5 printed parts. A fully loaded printhead with hot end, extruder, ABL, dual fans, ADXL345, LED, and wire management is only 12 printed parts.

4/28/2023: Here is a new interview with Daniel of Crosslink that provides a great overview of the Hero Me platform:

3D Printers & Components Supported by Hero Me Gen7.4

Over 115 3D Printer Models/X Carriages Supported:

- 3DFused V1, V2, V3, CoreXY, Master X carriage
- Alfawise U20-U30
- Anet ET4, ET5, E10, A8
- Anycubic Vyper, Chyron, Mega S, Mega Zero, Kobra Go
- BigTreeTech HermitCrab

- BIQU B1
- BLV Ender 3 Linear Rail Upgrade
- BLV MGN Metal Cube
- CR-6SE*
- CR-10, V2, V3
- CR-10 Mini
- CR-10S, S4, S5
- CR-10S Pro, Pro V2, Pro V3
- CR-20
- CR-MAX
- Ender 2 Pro
- Ender 3 ,
- Ender 3 Pro
- Ender 3 Neo*
- Ender 3X
- Ender 3 V2
- Ender 3 V2 Neo *
- Ender 3 MAX ,
- Ender 3 Max Neo*
- Ender 5, 5 Pro, 5 Plus
- ENDER 6 CoreXY
- Elegoo Neptune 2, 2S, x
- Elegoo Neptune 3*, 3 Pro*, 3 Plus*, 3 Max*
- Eryone Thinker SE
- Exoslide
- Geeetech A10, A20, A30
- HyperCube
- Kingroon KPS3
- Kywoo
- Labists ET4
- Lantro
- Linear Rails MGN9-H, MGN12-C, MGN12-H
- Longer LK1, LK5 Pro
- Mercury One
- Micro Swiss DD kits (Ender 3, Ender 5, Exoslide, Linear Rails)
- OpenBuilds Mini V
- PrinterMods xChange & MDD kit V1.2, V1.3
- RepRap i3 Clones
- Prusa MK3S/+*
- SainSmart Coreception 300
- Sovol SV01, SV02, SV05 , SV06, SV06 Plus
- Sunlu S8
- Tevo Tarantula Pro, Tornado
- Tronxy X5SA Pro
- Two Trees Bluer, Sapphire Pro, Plus
- Wham Bam MUTANT

- Wham Bam Universal X carriages (v-wheel, linear rails)
- Voron 2.4, Switchwire-Afterburner
- Voxelab Aquila-Pro
- ZYLTech Gear V3
- Most clones of Creality CR & Ender printers

Printer models listed above with an Asterix may have limited support. The 3D printer model and its X carriage are fully supported, but a component (most likely the stock hot end) of the stock printhead assembly may not be compatible with the Hero Me Gen7 Base or other assemblies. Replacing the stock part with a 3rd party equivalent component will resolve this.

47+ Hot End Brands and Models Supported:

- Anycubic Vyper V5 Stock
- Creality Stock MK8 (2 screw mount)
- Creality CR-10S Pro (2 screw mount)
- Creality Spider (350c max)
- Creality Spider High Temp (500c max)
- Creality Spider 3 Pro
- Creality Spider 4 Pro (Speedy Ceramic)
- E3D-Online V6 & Volcano
- E3D-Online Revo Six (aka Prusa MK3)
- E3D-Online Revo Micro (aka Mini)
- E3D-Online Revo Voron
- E3D-Online Revo CR
- Haldis Red Lizard K1 V6 (Dragon)
- Haldis Red Lizard K1 Pro-HF-UHF
- Haldis Red Lizard V5, V5 Pro
- Generic MK8
- Generic J-Head V5, V6
- Micro Swiss All Metal CR-10, 10S Pro
- Neptune Stock
- Phaetus Dragon
- Phaetus Dragonfly BMO-BMS-HIC
- Phaetus Rapido (aka ST, HF)
- Phaetus Rapido Plus (aka UHF)
- Phaetus X Voron Dragon ST-HF-UHF
- Phaetus TaiChi
- Slice Engineering Copperhead
- Slice Mosquito, Magnum, Magnum+
- Slice Mosquito for Creality
- TriangleLab Dragon SF-HF
- TriangleLab Rapido HF-UHF
- TriangleLab TCHC CHC, CHC Pro, PT1000 Pro
- TriangleLab TCHC TR6

- TriangleLab CHC Mini
- Clones of any hotends above

37+ Extruder Brand and Models Supported:

- Advanced 3D Printing FXD
- Bondtech BMG (and mirror)
- Bondtech BMG-M (and mirror)
- BMG Mini (clone)
- Bondtech LGX
- Bondtech LGX Lite
- Creality Stock Single and Dual Gear
- Creality E-Fit
- E3D-Online Titan
- EZR Struder
- HextrudORT
- Kingroon Titan Clone
- Micro Swiss DD kits: Ender 3, 5, Linear Rail, Exoslide • Micro Swiss Dual Gear
- Orbiter V1.5 & V2.0 (and mirrors)
- PrinterMods MDD Kit
- Phaetus APUS
- Sailfin A, B, Sherpa Variants
- Sherpa Mini
- Sherpa Micro
- Sovol SV01 stock
- Sovol SV06 stock
- Vz-HextrudORT
- TriangleLab TBG-Lite
- TriangleLab TBG-S
- Voron, Switchwire-Afterburner
- Clones of any extruders above (look-alikes may not fit)

20+ Auto Bed Level (ABL) Sensors Supported:

- Beacon3D
- BLTouch
- CR Touch
- Creality OEM
- Euclid Probe
- EryONE ER-20
- EZABL Pro
- EZABL Pro Mini & Micro
- HallON
- PINDA
- PL-08N, XY-08M, SN04-N

- Touch Mi
- TA Sensor
- Omron Sensor
- 8mm, 12mm & 18mm sensors
- Clones of any ABL sensors above

Heat Sink and Part Cooling Fans Supported:

- 4010 radial fan (single and dual)
- 4020 radial fan (single and dual)
- 5015 radial fan (single and dual)
- 5020 radial fan (single and dual)
- 4010 & 4020 axial fans for heat sink cooling

There are also 14 mounts for various ADXL345 accelerometer PCBs and other options like endoscope cameras and analog dial gauges.

If there is a generally known component (hot end, extruder, etc.) that is not listed in this document, it is either not compatible (too large, etc.) or has not yet been tested.

The Hero Me Gen7 does not support any of the integrated extruder/hot ends, this includes but may not be limited to the following: Creality S1 Sprite, Micro Swiss NG, E3D-Online Titan Aero, BIQU H2, E3D-Online Hemera, and the Bondtech LGX Shortcut. These extruder/hot ends setups are all too large, too wide, to fit into a Hero Me Base. I will be developing specific part cooling ducts based upon the Hero Me with ABL/ADXL345 mounts for as many of these integrated extruder/hot ends as is possible. ETA sometime in the Fall of 2024.

Huge Community of Support: There are now over 700 remixes, adaptations, and compatible add-on parts for the Hero Me Gen7 cooling system from the community via remixes and mods here:
https://www.thingiverse.com/thing:3433619/remixes
https://www.thingiverse.com/mediaman/collections/hero-me-cooling-systems
https://www.printables.com/social/56045-mediaman3d/collections/113081

Hero Me Gen7.4 Documentation

If you skipped it earlier, the Zip file containing all the Hero Me Gen7 STLs is organized into folders by component category, with sub-folders by Brand and Type. Individual STLs have very descriptive filenames to make it easy to find the parts you need. If you want detailed illustrated documentation to help you select and assemble the Hero Me Gen7 for your specific 3D printer you can get a detailed 56-page parts selection and illustrated assembly guide by supporting me here on Printables by clicking on the

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YouTube Videos about the Hero Me

Jim of The Edge of Tech visits me at the Rocky Mountain Rep Rap Festival in April (3 minute clip starts at 56:30):

I was a guest on Grant Posner's 3D Musketeers Making Awesome YouTube Channel. We talked about the Hero Me, Prusa MUTANT upgrade, other 3D printing topics and plenty of live Q&A. I hope you can attend. When it comes to part cooling, everybody deserves a Hero!

Here is an example of Hero Me Gen7 performance compared to other cooling solutions. Note that a Dual 5015 fan setup in the Hero Me Gen7 never needs to be more that 70% power, and most commonly at 40-50% to get best airflow and all around cooling with the benefit of super quiet printing.

Kris from Kersey Fabrications lists the Hero Me as one of the Top 5 upgrades for the Ender 5. Check out the video below:

Thanks and Credits

I would like to thank Hangtight for his work on converting the Hero Me STLs into STEP files (available to my Patreon supporters).

I would like to thank ACWest for providing his awesome part cooling ducts to be part of the Hero Me Gen7 Master Suite. His cooling ducts have been CFD (Computational Fluid Dynamics) tested and validated to have the optimum focused airflow across the part at the tip of the nozzle.

Thanks to Kelokera for the original Hero Me design https://www.thingiverse.com/thing:3092044

Thank you for choosing the Hero Me Gen7 to be part of your 3D printing experience! Please post your feedback, make, or remix on the Hero Me Gen7 project and share this with your 3D printing friends!

If you like my designs or want documentation and support, please consider supporting me on Patreon: **https://www.patreon.com/MediaMan3D**

Printing Instructions

Rafts: No
Supports: Yes
Resolution: .2mm
Perimeters: 3-4
Infill: 35% to 50%
Filament_brand: Any
Filament_color: Any
Filament_material: PLA, PETG, ASA, ABS, PC- CF, PA-CF, PC, Nylon

The Hot end mounts must NOT be printed in PETG (to much natural flex). Print the Hot end mounts in either PLA+, ASA, ABS, PA-CF, or PC-CF.

The Skirt must be printed in at least PETG, or preferably ASA, ABS, PA-CF, or PC-CF.

While Part Cooling Ducts can be printed in PLA+ (requires the use of a silicone sock on the heat block), I recommended printing the Ducts in at least PETG, or preferably ASA, ABS, PA-CF, or PC-CF.

Set infill to be between 35% and 50%. Use automated supports from the build plate only (these can be sparse; you need LESS support than you think!).

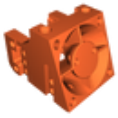
The lightweight cooling ducts can use a few well-placed supports just inside the part (NOT inside the duct).

I highly recommend using a silicone sock for your hot-end in all cases.

This remix is based on

None	**None**

Model files



hmg72-universal-upright-base-v2.stl

Download the ZIP and PDFs. This is just here because a 3D file is required.

Other files

hero-me-gen7-release-4.zip

hero-me-gen74-read-me-first-v41.pdf

hero-me-gen74-printer-component-support-v41.pdf

hero-me-gen74-change-log-v16.pdf

Find source .stl files on Thingiverse.com

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