

VORON Community Survey

This survey aims to collect data on the build and ownership of the open source 3d printers from VORON Design. The survey is available for anyone in the VORON discord, Facebook group or subreddit to complete.

All information gathered is confidential and anonymous. The data will be used to inform the design of 3d printer or ecosystem. The aim is to mitigate some or all of the sustainability issues caused by consumer 3d printing.

There will be the opportunity to register your interest in participating in this project further. This will likely be in the form of community led focus groups and feedback sessions, however this is subject to change. By registering interest you are under no obligation to participate in future activities, only that you wish to be contacted about them. These sessions will be conducted through a private discord server. Signup will require you to divulge your discord name and four digit #. You will be sent an invite to the private discord server. You will only be added if you are already a member of the VORON discord. If you are not already a member there, but wish to participate, please join their server before submitting the survey.

Any reference to "build" in this survey is referring to the entire process speccing, sourcing, assembling, configuring and calibrating the printer. "Assembly" will be used when describing physically putting the parts of the printer together.

* Required

User information

1. Age

Optional

- ☐ Under 18
- ☐ 18-24
- ☐ 35-44
- ☐ 45-54
- ☐ 55-64
- ☐ Over 65

2. How long have you been 3d printing? *

- ☐ Less than 1 year
- ☐ 1 year
- ☐ 2 years
- ☐ 3 years
- ☐ 4 years
- ☐ 5 years or more

3. How many 3d printers have you owned? *

4. How many 3d printers do you currently own? *

VORON background

Your experience with VORON printers

5. Have you built a VORON? *

- ☐ I've built one
- ☐ I've built more than one
- ☐ My first build is in progress
- ☐ I'm sourcing parts for my first build
- ☐ I'm planning my first build
- ☐ No, but I want to build one
- ☐ No, and I don't want build one

6. What is preventing you from building a VORON? *

Select all that apply. Space to elaborate is available after you answer.

- ☐ The price
- ☐ The performance
- ☐ Lack of time for the build
- ☐ Concerns about the build difficulty
- ☐ Lack of space
- ☐ Other

7. Why don't you want to build a VORON? *

Select all that apply. Space to elaborate is available after you answer.

- ☐ The price
- ☐ The performance
- ☐ Lack of time for the build
- ☐ Concerns about the build difficulty
- ☐ Lack of space
- ☐ Other

8. Please elaborate

Optional

9. Please elaborate

Optional

10. Which model/s of VORON have you built? *

Select all that apply. Space to elaborate is available after you answer.

- ☐ VORON 0.X
- ☐ VORON Trident
- ☐ VORON 2.X
- ☐ VORON Switchwire
- ☐ VORON Legacy
- ☐ Custom build (i.e. V24, Doomcube, V2.4 Mini)
- ☐ Unfinished build
- ☐ Planning build
- ☐ Not building a VORON
- ☐ Other

11. Please elaborate

Optional

12. Which model/s of VORON would you like to build? *

Select all that apply. Space to elaborate is available after you answer.

- ☐ VORON 0.X
- ☐ VORON Trident
- ☐ VORON 2.X
- ☐ VORON Switchwire
- ☐ VORON Legacy
- ☐ Custom build (i.e. V24, Doomcube, V2.4 Mini)
- ☐ Unfinished build
- ☐ Planning build
- ☐ Not building a VORON
- ☐ Other

13. Please elaborate

Optional

VORON build - Self source vs kit

14. Which method did you choose for your sourcing your VORON parts? *

- ☐ Self source
- ☐ Kit
- ☐ Hybrid (i.e. premade wiring harness, complete fastener sets etc)

15. Why did you self source?

Optional

16. Why did you choose a kit?

Optional

17. Why did you self source some parts and not others?

Optional

VORON build - Choosing your machine and specification

18. Issues encountered while spec'ing your build *

Select all that apply. Space to elaborate on these issues is available after you answer.

- ☐ How each machine differs
- ☐ How size impacts price
- ☐ Where money can safely be saved
- ☐ Hotend choice on BOM (i.e. high flow vs standard,
- ☐ Extruder choice on BOM (i.e. prebuilt like LGX or print and build like Clockwork)
- ☐ Display choice on BOM
- ☐ Specs of electronics (i.e. 2GB, 4GB, 8GB Pi4 Model B)
- ☐ Controller choice (i.e. single / dual Duet vs dual SKR)
- ☐ Adjusting BOM for your country (i.e. fuses and heater for bed)
- ☐ Which mods to include from the start (i.e. AB-BN / Stealthburner are now recommended over standard)
- ☐ Adjusting BOM for mods (i.e. removing toothed idlers and adding F695 for idler bearing mod)
- ☐ Other

19. Explanation of issues

Optional. Only issues relating to spec'ing your VORON.

20. Have you finished speccing your VORON? *

☐ Yes

☐ Not yet

21. How long did it take to spec your VORON? *

Please give an estimate in hours

VORON build - Parts Sourcing

22. Issues encountered while sourcing parts *

Select all that apply. Space to elaborate one these issues is available after you answer.

- ☐ Links to parts broken / out of date
- ☐ Sourcing guide out of date / unavailable for your region
- ☐ Shipping unavailable to your country
- ☐ Parts out of stock
- ☐ High shipping costs
- ☐ Customs charges
- ☐ Build delayed due to waiting on parts
- ☐ Unsure of reputable brands
- ☐ Specs of electronics unclear on retailers site
- ☐ Specs of hardware unclear on retailers site
- ☐ Specs of parts for mods unclear
- ☐ Printing / buying printed parts
- ☐ Unclear of what tools you need
- ☐ Other

23. Explanation of issues

Optional. Only issues relating to sourcing parts for your VORON.

24. Have you finished sourcing your VORON's parts? *

☐ Yes

☐ No

25. How long did it take to source all your VORON's parts? *

Please give an estimate in hours

VORON build - Assembly

26. Issues encountered during assembly *

Select all that apply. Space to elaborate one these issues is available after you answer.

- ☐ Missing parts
- ☐ Printed parts not to spec (i.e. tolerances on Z drive housing too tight)
- ☐ Quality of parts (i.e. bad threads on hardware, linear rails running rough)
- ☐ Instructions vague / unclear (i.e. no T-nuts shown in manual)
- ☐ Squaring of the frame
- ☐ Cleaning and applying lube to linear rails
- ☐ Parts differing from manual (i.e. manual only shows Clockwork extruder)
- ☐ Attaching heater to bed
- ☐ Installing heat set inserts
- ☐ Positioning electronics
- ☐ Wiring order (i.e. PSU to SSR to thermal fuse to heating pad)
- ☐ Determining wire length for loom
- ☐ Soldering
- ☐ Crimping / connector install
- ☐ Cable management
- ☐ Belt routing
- ☐ Belt tensioning
- ☐ Trouble shooting electrical issues
- ☐ Trouble shooting motion issues
- ☐ Other

27. Explanation of issues

Optional. Only issues relating to assembling your VORON.

28. Have you finished assembling your VORON? *

☐ Yes

☐ No

29. How long did assembly take? *

Please give an estimate in hours

VORON build - Software configuration

30. Issues encountered during configuration *

Select all that apply. Space to elaborate one these issues is available after you answer.

- ☐ Choosing firmware
- ☐ Installing firmware on Raspberry Pi
- ☐ SSH connecting to Raspberry Pi
- ☐ Flashing firmware onto controller
- ☐ Creating and modifying printer.cfg
- ☐ Stepper motors moving in wrong direction
- ☐ Endstops (i.e. reading triggered when open)
- ☐ Locating bed
- ☐ Z endstop location
- ☐ Levelling bed (i.e. configuring quad gantry levelling on V2.4)
- ☐ E-step calibration
- ☐ Slicer configuration
- ☐ Macro creation
- ☐ Other

31. Explanation of issues

Optional. Only issues relating to configuring your VORON.

32. Have you finished configuring your VORON? *

☐ Yes

☐ No

33. How long did software configuration take? *

Please give an estimate in hours

VORON build - Calibration

34. Issues encountered during calibration *

Select all that apply. Space to elaborate one these issues is available after you answer.

- ☐ Z offset
- ☐ First layer squish
- ☐ Bed adhesion
- ☐ Pressure advance
- ☐ Bed mesh
- ☐ Input shaper
- ☐ Extrusion multiplier
- ☐ Layer shift
- ☐ Bulging
- ☐ Retraction
- ☐ Infill / perimeter overlap
- ☐ Cooling / layer times
- ☐ Max speed / acceleration
- ☐ Surface artefacts
- ☐ Other

35. Explanation of issues

Optional. Only issues relating to calibrating your VORON.

36. Have you finished calibrating your VORON? *

☐ Yes

☐ No

37. How long did calibration take? *

Please give an estimate in hours

38. Would you like to be contacted with more information regarding further participation in this design project? *

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☐ Yes

☐ No

39. Contact information *

Invites will be sent from the following account: ASuperBambi#9303. Invites will be generated using the VORON discord user list. If your account is not on the list you will not receive an invite. Feel free to contact me at ASuperBambi#9303 with any questions.

VORON build reflection

40. Would you build another VORON? *

☐ Yes

☐ No

41. Why wouldn't you build another VORON? *

Select all that apply. Space to elaborate one these issues is available after you answer.

☐ I don't need another printer

☐ The price

☐ The performance

☐ The build took too long

☐ I want to do something different

☐ Lack of space

☐ Other

42. Please elaborate

Optional

43. How difficult was it to build your VORON? *

- ☐ Extremely difficult
- ☐ Somewhat difficult
- ☐ Neutral
- ☐ Somewhat easy
- ☐ Extremely easy

44. What did you find hardest about building your VORON? Why? *

This includes anything from the point of choosing your machine to finishing calibration

45. Did building your VORON improve your 3d printing? *

46. Did building your VORON teach you anything new? *

47. How would you improve the VORON build process? *

Anything from better manuals, easier parts sourcing etc

Additional comments

Thank you for completing the survey. Any questions can be directed to ASuperBambi#9303 on discord.

48. Please use this space to offer any additional information relevant to the survey.

Optional

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