Corvus ATX - 3D Printed PC Case - Voron Inspired

MandicReally

VIEW IN BROWSER

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Summary

What if the Voron Design team decided to stop making 3D printers and build a PC case instead? THEY DIDN'T, but we did!

Gadgets > Computers

Tags: maker pc watercooled computercase voron pccase pccasemod vorondesign 3dprintedpc voronpc

Corvus ATX – The 3D-Printed Voron-Inspired Computer Case!

What if the **Voron Design** team decided to stop making 3D printers and build a PC case instead?
Spoiler: THEY DIDN'T! This is not an official Voron project... but it might be what it would look like if they did. Corvus ATX is a 3D-printed, extrusion-framed computer case inspired by the clean, modular, and open-source ethos of Voron printers. Designed to house a full custom streaming workstation, it blends maker aesthetics with real-world PC hardware needs. The Case can fit a 199mm tall Air Cooler Tower and a 400mm long GPU (approximately). Standard ATX power Supply fits in the basement. Files include mounting for 140mm & 60mm exhaust fans, as well as 3x 120mm top mounted fans. Blank acrylic panel DXFs are included for adding additional fans to or using as windows.

KITS ARE COMING! Preorder a hardware / extrusion kit from:

- **West3D (USA)** (affiliate link)
- **Fabreeko (USA)**
- **DREMC (AUS)**

Updated 10/05/2025:

- Added Front Skirt Parts for use w/ PCB Front Button Mod, found here: **V.PC Basic Frontpanel PCB**
- Added Front Panel w/ 2x 140mm Fan Holes
- Enlarged Panel Fan mounting screw holes to 5mm to allow Case Fan Screw use, (or M3 screws)
- Adjusted Fan Grilles to better fit M3x35mm Screws
- Adjusted Top Acrylic Panels to be uniform between Top Hat & No-Top Hat. (1 Size Fits Both Now!)
- Fusion / STEP Files updated to reflect changes.
- Added Files I somehow missed (Door Handles / Top Hat / Etc)

See the full YouTube Video about this design here:

Credit:

- @DonaldSayer - Originator of this design, laid the ground work to make it happen.
- Voron Design Team - Inspiring makers in ridiculous ways since... idk, a while...
- quattroerik - Door Hinges remixed for this project: LINK

Features

- **Voron-Inspired Construction** – 2020 aluminum blind joint extrusion skeleton, acrylic panels, and a lot of 3D-printed parts.
- **Standard PC Layout** – Supports ATX motherboards, GPUs, PSUs, water-cooling gear, and accessories.
- **Water-Cooling Friendly** – Mounts for radiator, distro plate, pump/reservoir, and hardline tubing.
- **3D Printing First** – All panels, brackets, and mounts printable on common beds (Prusa MK4, Bambu X1, etc.).
- **Customizable Aesthetic** – Change colors, panels, or remix the CAD to your own sizing.
- **Mods** - Compatible with various Voron Mods (LED mounts, etc)

What’s Included in the Download?

- Core Frame Brackets & Mounts (Motherboard tray, PSU mount, GPU support)
- Panel & Skirt Files (Side panels, bottom skirts, feet)

- Accessory Parts (Fan brackets, drive mounts, RGB channels)
- STEP & F3D Files – For easy remixing/customization

Print Settings & Recommendations

- **Nozzle:** 0.4 mm
- **Layer Height:** 0.2 mm
- **Walls:** 4+ perimeters for strength
- **Top/Btm Layers:** 6+ for rigidity
- **Infill:** 40%+ (Rectilinear, Gyroid, or Cubic recommended)
- **Material:** ABS/ASA (best), PETG, or PLA+ probably fine... (Approximately 2.6kg required.)
- **Support-Free** (Some can help on obvious parts, but aren't required.)

Hardware Required (Full BOM Coming... Soon... tm)

- 2020 Aluminum Extrusion (8× 400 mm + 4× 200 mm default spec)
- M5 Button Head Screws
- M5 Roll-In Nuts
- M3 Button Head Screws (2x this kit as you need a lot of M3x8)
- M3 Roll-In Nuts
- M3 Hammerhead T-Nuts
- Acrylic Panels (Laser cut or CNC'd)
- M3 Heat Inserts (standard Voron Size: M3x5x4)
- 2x Mechanical Keyboard Switches
- 2x 5mm LEDs
- PC Hardware
- 1mm Foam Tape
- VHB Tape
- 6mm x 3mm Magnets
- West3D "Builder Kit" Should have enough hardware.
- Approximately 2.6kg of Filament (Depends on the optional prints & colors you choose.)

⚠ **Notes & License**

- **Not an official Voron project** — just heavily inspired by their design philosophy.
- GPL-3 Open Source License - Please support those who make these projects possible.
- Remixing encouraged, just credit and link back.

If you build one, tag me @MandicReally — I'd love to see it in the wild!

Model files

CAD

2 files

voron_pc_case_v4.step

voron_pc_case_v4.f3z

Frame

1 file

blind_joint_drilling_jig_v1.stl

Feet

4 files

foot_a_x2_accent_a_v1.stl

foot_b_accent_x2_a_v1.stl

foot_a_x2_v1.stl

foot_b_x2_v1.stl

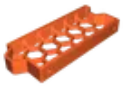
Skirts 16 files

middle_skirt_logo_inlay_a_v1.stl

front_button_mount_plate_v1.stl

side_skirt_b_closed_v1.stl

side_skirt_a_closed_v1.stl



side_skirt_b_open_v1.stl

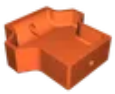
front_skirt_open_v1.stl

side_skirt_a_open_v1.stl

front_skirt_closed_v1.stl

front_led_mount_block_v1.stl

side_skirt_middle_inlay_a_v1.stl



side_skirt_middle_v1.stl

rear_skirt_v1.stl

reset_button_t_a_v2.stl

power_button_t_a_v2.stl

front_button_pcb_spacer_v1.stl

front_button_mount_pcb_v1.stl

Power Supply

6 files

psu_right_rear_cleat_v2.stl

psu_left_rear_cleat_v1.stl

psu_right_front_cleat_v2.stl

psu_left_front_cleat_v1.stl

psu_mount_right_v1.stl

psu_mount_left_v1.stl

Motherboard

3 files

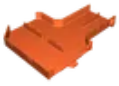
mobo_mount_side_v2.stl

mobo_mount_top_v2.stl

mobo_mount_bottom_v2.stl

Hidden Cable Channel

2 files

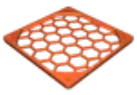


cable_channel_top_v1.stl

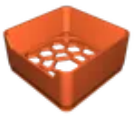
cable_channel_bottom_v1.stl

Rear Panels

7 files



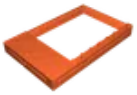
140_fan_grille_a_v2.stl



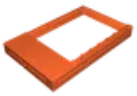
60mm_fan_hider_a_v2.stl

pci_blanking_plate_a_v1.stl

pci_blanking_plate_hex_a_v1.stl



expansion_slots_hex_v1.stl



expansion_slots_v1.stl

io_plate_filler_a_v2.stl

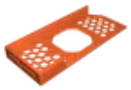
Printable Rear Panel Fillers 6 files

pci_filler_blank_a_v1.stl

pci_filler_hex_a_v1.stl

pci_filler_partial_hex_a_v1.stl

exhaust_fan_mount_bottom_v1.stl



pci_filler_hex_60mm_a_v1.stl

exhaust_fan_mount_top_v1.stl

Deck Panel

4 files

deck_panel_front_v1.stl

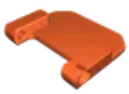
deck_panel_rear_v1.stl

deck_support_front_rear_x4_v1.stl

deck_support_mid_x2_v1.stl

Panel Mounting

9 files



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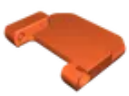
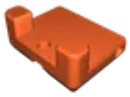


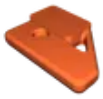
door_hinge_x2_v1.stl

midspan_panel_clip_4mm_x15_v1.stl



door_hinge_3mm_mount_x2_v1.stl

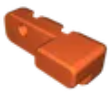
corner_panel_clip_4mm_x14_v1.stl



door_handle_top_v1.stl

door_handle_bottom_v1.stl

door_latch_top_v1.stl



door_latch_bottom_v1.stl

Acrylic Panel DXFs 8 files

bottom_panel_v1.dxf

door_side_panel_x2_v1.dxf

deck_panel_acrylic_v1.dxf

rear_panel_v2.dxf

top_panel_360_v2.dxf

V2: Adjusted to fit Top Hat & Bare Case. Fan holes enlarged to fit Case Fan Screws.

top_panel_blank_v2.dxf

V2: Adjusted to fit both the bare case AND Top Hat. No separate Top Hat Panel.

front_panel_280_v1.dxf

front_panel_blank_v1.dxf

Top Hat (Optional)

8 files

th_right_front_v1.stl

th_left_front_v1.stl

th_right_rear_v1.stl

th_left_rear_v1.stl

th_front_v1.stl

th_rear_v1.stl

th_corner_clip_a_x4_v2.stl

th_mid_clip_a_x2_v2.stl

Other files

voron-vpc-hardware-bom-updated-10_04_2025.pdf

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