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REVISION HISTORY

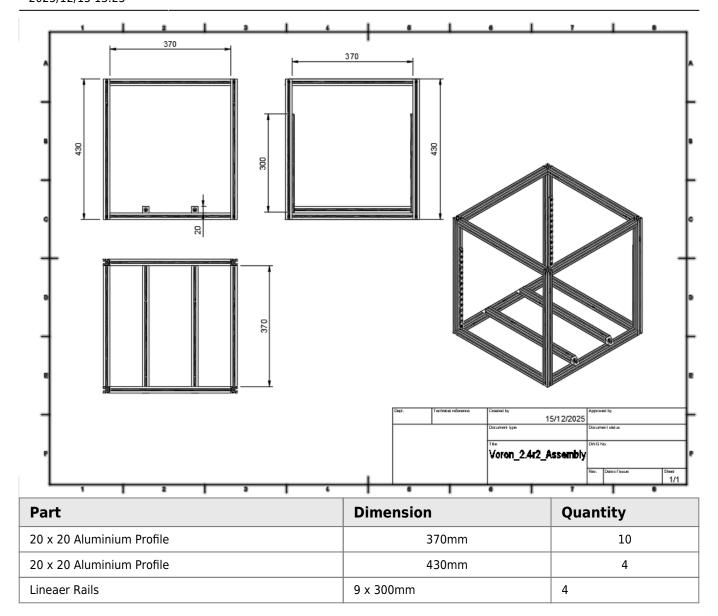
Revisio	Details of Modification(s)	Reason for modification	Date	Ву
0	Draft release	Document description here	2025/12/02 17:13	jattie

Voron 2.4 Build

This section facilitates research of information for a building a Voron 2.4.

Building the frame

The Voron publications default model is for a 246mm build plate and surprisingly not publishing scaled models and the 3D model is not parametric or scaling either.



In order to Facilitate a 350mm build this needs to be scaled. This is not a problem when buying kits, however building from raw materials needs to dimensional details.

- 4 x 530 mm (drilled) → The vertical uprights. They set the printer's height and must be drilled for blind joints.
- 10 x 470 mm (tapped) → The horizontal frame members (top and bottom squares, plus gantry supports). These are tapped to accept fasteners.

Building The Gantry

- $2 \times 450 \text{ mm} \rightarrow \text{The gantry extrusions that carry the XY motion system.}$
- $1 \times 430 \text{ mm} \rightarrow \text{The rear crossmember that supports the Z drives and belts.}$
- 1 × 340 mm → The front crossmember that supports the front idlers and closes the frame

West3D Voron V2.4 Self-Source Configurator

Build Size: 350mm	€131.13
Frame: Space Grey (W/ Angle Brackets)	€13.11

Printed on 2025/12/24 19:31 http://www.3dfaq.net/

Printed Parts: No Printed Parts Fasteners: BDF Stainless Steel Motion: POWGE Motion Silver Rails: Berserker Rails - Medium Preload Ready to Roll Add-on: No - I'll do that myself XY Endstop: XY PCB Z Endstop: X PCB Probe: CNC Tap Kit SSR: Panasonic AQA211VL 15A SSR Motors: LDO V2.4 Motor Kit Controller Board: Manta M8P (With CB2) Display: BTT PiTFT 5" Touch Display Stepper Drivers: TMC2226 Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner Flower Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard Printed High-Temp HTN Nylon Ducts: Not Needed		
Motion: POWGE Motion Silver Rails: Berserker Rails - Medium Preload Ready to Roll Add-on: No - I'll do that myself XY Endstop: XY PCB Z Endstop: Z PCB Probe: CNC Tap Kit SSR: Panasonic AQA211VL 15A SSR Motors: LDO V2.4 Motor Kit Controller Board: Manta M8P (With CB2) Display: BTT PiTFT 5" Touch Display Stepper Drivers: TMC2226 Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Printed Parts: No Printed Parts	
Rails: Berserker Rails - Medium Preload Ready to Roll Add-on: No - I'll do that myself XY Endstop: XY PCB Z Endstop: Z PCB Probe: CNC Tap Kit SSR: Panasonic AQA211VL 15A SSR Motors: LDO V2.4 Motor Kit Controller Board: Manta M8P (With CB2) Display: BTT PiTFT 5" Touch Display Stepper Drivers: TMC2226 Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w / Ti Screws: Standard	Fasteners: BDF Stainless Steel	
Ready to Roll Add-on: No - I'll do that myself XY Endstop: XY PCB Z Endstop: Z PCB Probe: CNC Tap Kit	Motion: POWGE Motion Silver	€43.71
XY Endstop: XY PCB Z Endstop: Z PCB Probe: CNC Tap Kit	Rails: Berserker Rails - Medium Preload	€43.71
Z Endstop: Z PCB Probe: CNC Tap Kit 630.60 SSR: Panasonic AQA211VL 15A SSR Motors: LDO V2.4 Motor Kit Controller Board: Manta M8P (With CB2) Display: BTT PiTFT 5" Touch Display 643.71 Stepper Drivers: TMC2226 Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner ### C24.48 Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Ready to Roll Add-on: No - I'll do that myself	
Probe: CNC Tap Kit SSR: Panasonic AQA211VL 15A SSR Motors: LDO V2.4 Motor Kit Controller Board: Manta M8P (With CB2) Display: BTT PiTFT 5" Touch Display Stepper Drivers: TMC2226 Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	XY Endstop: XY PCB	
Motors: LDO V2.4 Motor Kit €26.23 Controller Board: Manta M8P (With CB2) €52.45 Display: BTT PiTFT 5" Touch Display €43.71 Stepper Drivers: TMC2226 €8.74 Power Supply: LRS-200-24 (24v) Extruder Components: Galileo 2 (G2E) €26.23 Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge €13.11 Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) €13.11 Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF €8.74 Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) €8.74 Side + Door Panels (Acrylic or ACM): Smoked €4.37 Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Z Endstop: Z PCB	
Motors: LDO V2.4 Motor Kit Controller Board: Manta M8P (With CB2) Display: BTT PiTFT 5" Touch Display Stepper Drivers: TMC2226 Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner ### Toolhead PCB: Nitehawk Stealthburner Flex Pareium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked ### Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Probe: CNC Tap Kit	€30.60
Controller Board: Manta M8P (With CB2) Display: BTT PiTFT 5" Touch Display \$ \pmu \text{43.71} Stepper Drivers: TMC2226 Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner ### C24.48 Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	SSR:	Panasonic AQA211VL 15A SSR
Display: BTT PiTFT 5" Touch Display Stepper Drivers: TMC2226 Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Motors: LDO V2.4 Motor Kit	€26.23
Stepper Drivers: TMC2226 Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Controller Board: Manta M8P (With CB2)	€52.45
Power Supply: Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF €8.74 Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Display: BTT PiTFT 5" Touch Display	€43.71
Extruder Components: Galileo 2 (G2E) Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF €8.74 Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Stepper Drivers: TMC2226	€8.74
Wiring Harness: V2.4 / Trident Wiring Harness Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge €13.11 Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) €13.11 Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF €8.74 Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) €8.74 Side + Door Panels (Acrylic or ACM): Smoked €4.37 Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Power Supply:	LRS-200-24 (24v)
Cable Chains: Standard Cable Chains Bed Heater: West3D Performance Edge to Edge	Extruder Components: Galileo 2 (G2E)	€26.23
Bed Heater: West3D Performance Edge to Edge Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) €13.11 Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF €8.74 Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked €4.37 Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Wiring Harness: V2.4 / Trident Wiring Harness	
Aluminium Build Plate: Voron 2.4 MIC6 Build Plate Flex Plate: Energetic Doubled Sided Smooth/Texture (350) €13.11 Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF €8.74 Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) €8.74 Side + Door Panels (Acrylic or ACM): Smoked €4.37 Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Cable Chains: Standard Cable Chains	
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Build Plate Magnet: Standard Toolhead: Stealthburner Toolhead PCB: Nitehawk Stealthburner €24.48 Hot End: Rapido PT1000 HF Fower Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked €4.37 Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Aluminium Build Plate: Voron 2.4 MIC6 Build Plate	
Toolhead: Stealthburner Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Flex Plate: Energetic Doubled Sided Smooth/Texture (350)	€13.11
Toolhead PCB: Nitehawk Stealthburner Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Build Plate Magnet: Standard	
Hot End: Rapido PT1000 HF Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) Side + Door Panels (Acrylic or ACM): Smoked Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Toolhead: Stealthburner	
Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker Fans: Premium Option (Delta Blower) €8.74 Side + Door Panels (Acrylic or ACM): Smoked €4.37 Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Toolhead PCB: Nitehawk Stealthburner	€24.48
Fans: Premium Option (Delta Blower) €8.74 Side + Door Panels (Acrylic or ACM): Smoked €4.37 Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Hot End: Rapido PT1000 HF	€8.74
Side + Door Panels (Acrylic or ACM): Smoked €4.37 Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Power Inlet / Rocker Switch: Tyco Filtered Inlet + ZF Rocker	
Back/Deck/Bottom Panels (ABS): Black Titanium Backers w/ Ti Screws: Standard	Fans: Premium Option (Delta Blower)	€8.74
Titanium Backers w/ Ti Screws: Standard	Side + Door Panels (Acrylic or ACM): Smoked	€4.37
	Back/Deck/Bottom Panels (ABS): Black	
Printed High-Temp HTN Nylon Ducts: Not Needed	Titanium Backers w/ Ti Screws: Standard	
	Printed High-Temp HTN Nylon Ducts: Not Needed	
Kinematics Kit: Yes - Titanium €52.45	Kinematics Kit: Yes - Titanium	€52.45

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