| 3D PRINTING AND DESIGN REFERENCE DOCUMENT | |
|---|---|
| **Document Title:** | Document Title |
| **Document No.:** | 1764695602 |
| **Author(s):** | jattie |
| **Contributor(s):** | |

**REVISION HISTORY**

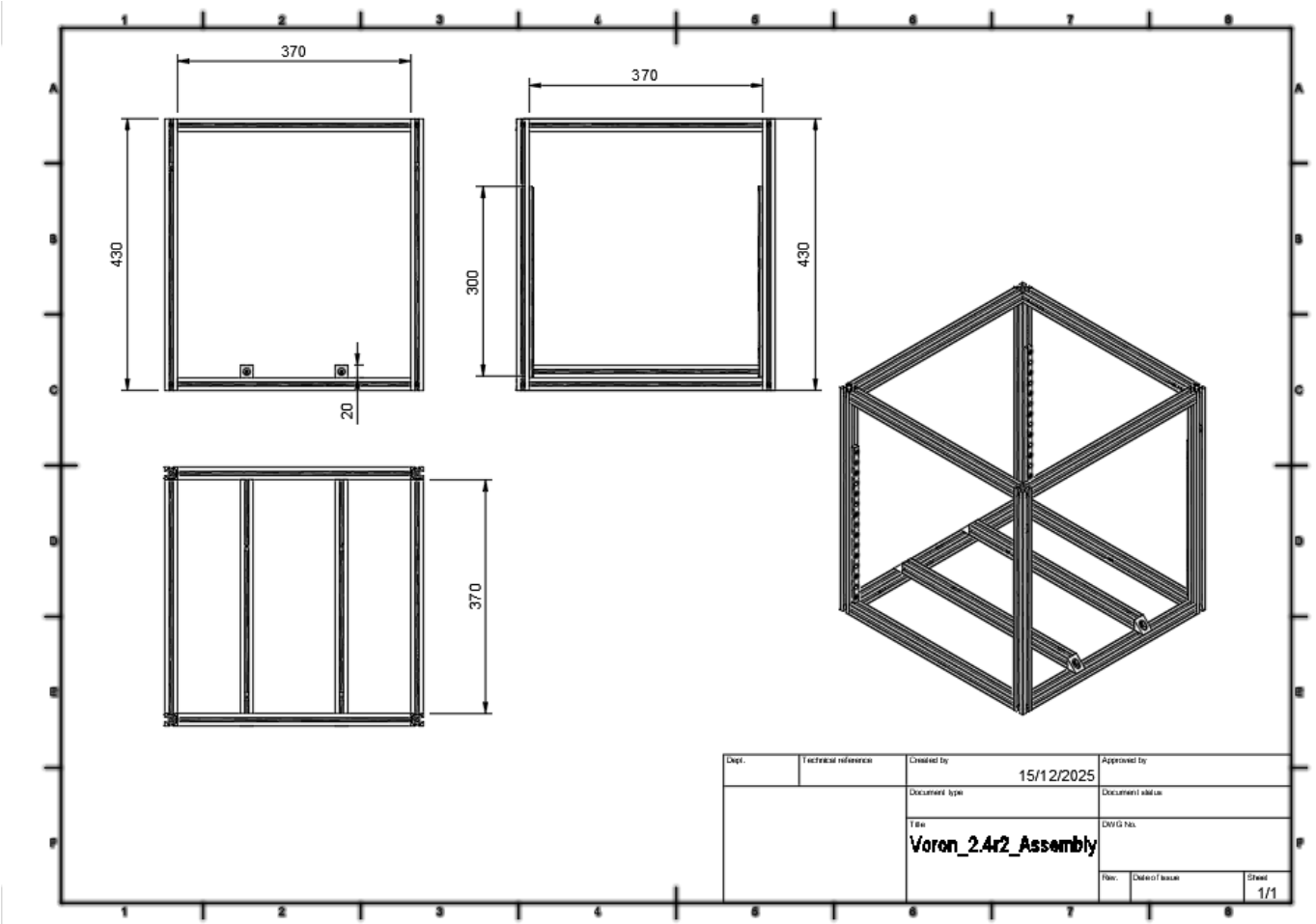
| Revision | Details of Modification(s) | Reason for modification | Date | By |
|---|---|---|---|---|
| 0 | Draft release | Document description here | 2025/12/02 17:13 | jattie |

# 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.




| Part | Dimension | Quantity |
|---|---|---|
| 20 x 20 Aluminium Profile | 370mm | 10 |
| 20 x 20 Aluminium Profile | 430mm | 4 |
| Lineaer Rails | 9 x 300mm | 4 |

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

# Building The Gantry

- 2 × 450 mm → The gantry extrusions that carry the XY motion system.
- 1 × 430 mm → 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 Parts: No Printed Parts** | |

| | |
|---|---|
| **Fasteners: BDF Stainless Steel** | |
| **Motion: POWGE Motion Silver** | €43.71 |
| **Rails: Berserker Rails - Medium Preload** | €43.71 |
| **Ready to Roll Add-on: No - I'll do that myself** | |
| **XY Endstop: XY PCB** | |
| **Z Endstop: Z PCB** | |
| **Probe: CNC Tap Kit** | €30.60 |
| **SSR:** | Panasonic AQA211VL 15A SSR |
| **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** | |
| **Printed High-Temp HTN Nylon Ducts: Not Needed** | |
| **Kinematics Kit: Yes - Titanium** | €52.45 |

From:
http://3dfaq.net/ - **3D Printing Wiki**

Permanent link:
**http://3dfaq.net/04_projects/06_voron_24?rev=1765805003**

Last update: **2025/12/15 13:23**