

3D PRINTER FRAME

Frame Extrusions

The frame of a 3D printer is the foundation of the mechanical assembly. There are many profile designs and suppliers to choose from. The frame supports all mechanical and electrical components that carry out printing work while also one of the factors that determine build volume which limits how large build volume.

- The foundation of the mechanical assembly
- It determines the build volume of the 3D printer.

When choosing a frame extrusion, consider the shipping cost, profile geometry, linear rail mounting, as well as desired build volume.

- **T-Slot vs V-Slot**
- **2020 vs 3030**

Quality and aesthetics may be a consideration to builders but not usually a problem. Most suppliers offer consistent and decent quality. The issues that usually arise are the accuracy of segments ordered cut to length.

We outline the different frame types and construction methods, as well as present a few good options. Below you'll find a guide in selecting and sourcing aluminum extrusions and other various components for your [3D printer build](#).

Aluminum Extrusions

Aluminum extrusion is a simple and common source for a 3D printer frame. Extrusions can be hand tapped and connected to other 3d printer components. The design is a simple solution that has many options regarding mechanical components such as brackets, doors, and enclosure.

Aluminum frame extrusions are a good choice due to their modular design. The frame slot found on the **t-slot** or **v-slot** extrusions allows for adjustment compared to an aluminum bar with drill holes. For the WorkHorse builders, you can buy a 3D printer frame from [3D Distributed](#) or the suppliers listed below.. The main goal is getting all the right parts together for your build.

There are many suppliers available and the choice is shipping cost and availability. Here is a list of a few good frame extrusion options:

Frame Suppliers:

- Misumi
- Zyltech

3D Distributed

- Openbuilds
- Rat-Rig
- 80/20

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DIY 3D printer parts

3D Printer Parts Kit

3D printer parts list

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