

Is CoreXY better?

The advantages of the core xy design:

- Faster print speeds without a reduction in the quality of your prints and this is mainly down to the fact that it doesn't have many moving parts.
- A CoreXY printer will have a smaller overall size without sacrificing build volume
- Print faster without leaving behind artifacts in your print. This is because there are no moving parts of the significant mass. With other printer designs, there's typically a moving gantry that is attached to the stepper motors or the print bed.
- The advantage is that there is less momentum when the motion system must suddenly change direction.
- Core XY uses two motors offset from the carriage
- high accuracy and better
- A good corexy printer can handle almost the same acceleration settings as a delta printer. They can be as fast, but without the pain of calibration.
- A corexy can print faster with better accuracy because of the lower inertia or weight of the moving parts.
- Better center of inertia

See [CoreXY Architecture](#)

CoreXY Design Advantages

1. It can result in fast print speeds without a reduction in the quality of your prints and this is mainly down to the fact that it doesn't have many moving parts.
2. A CoreXY design will have a smaller footprint by being smaller in overall size without having to sacrifice build volume. See [CoreXY Design](#)

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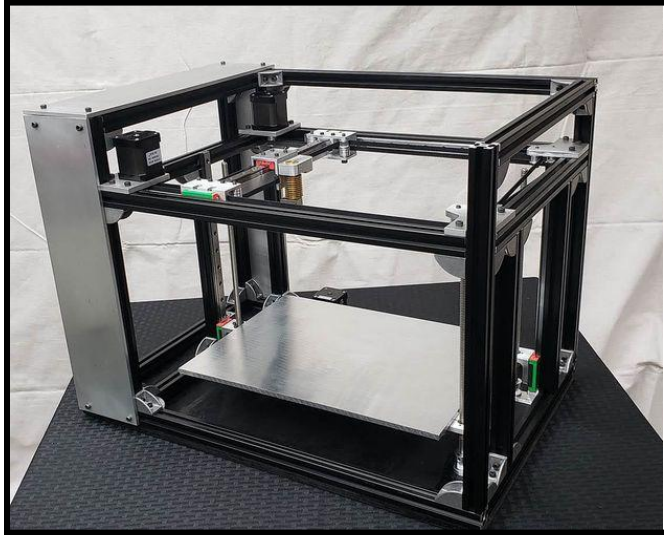
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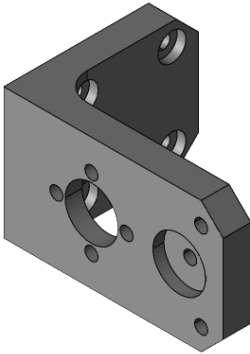
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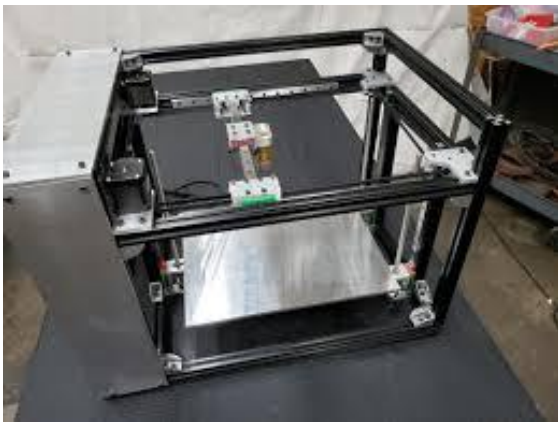
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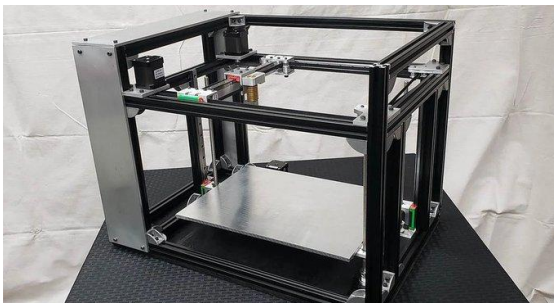
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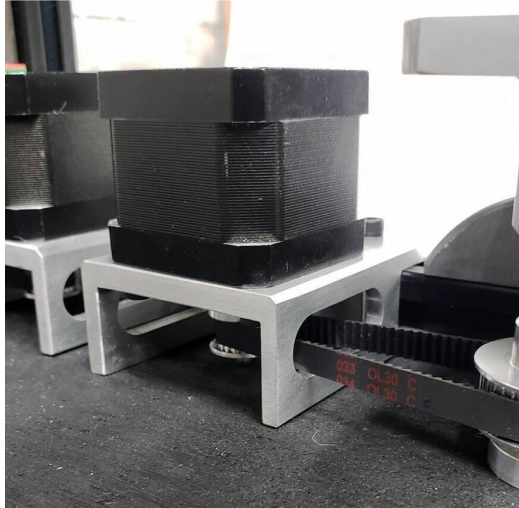


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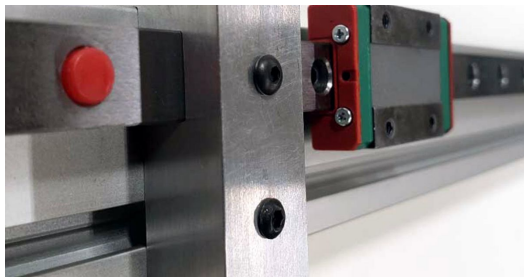


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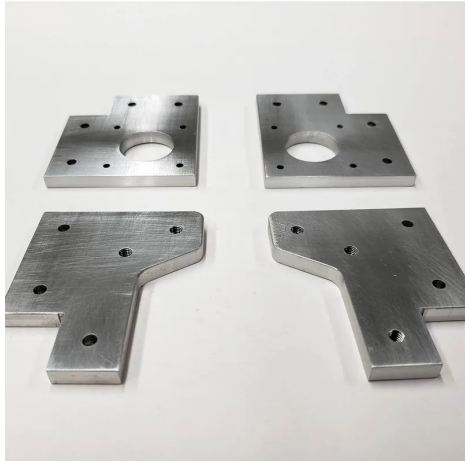
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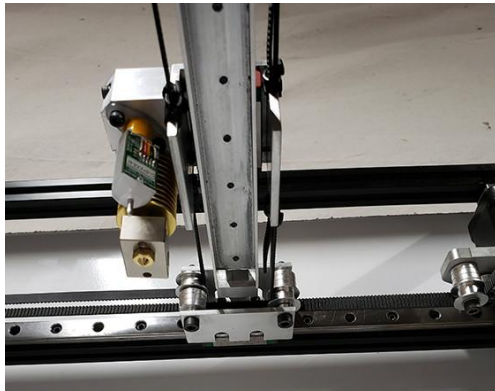
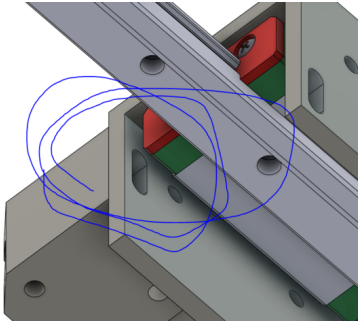


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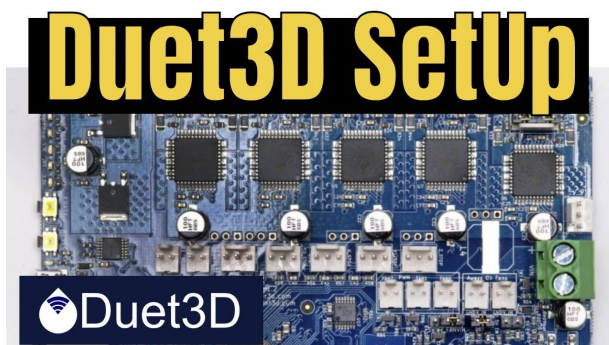


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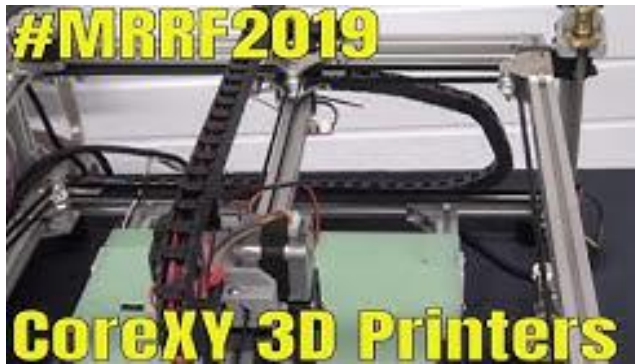
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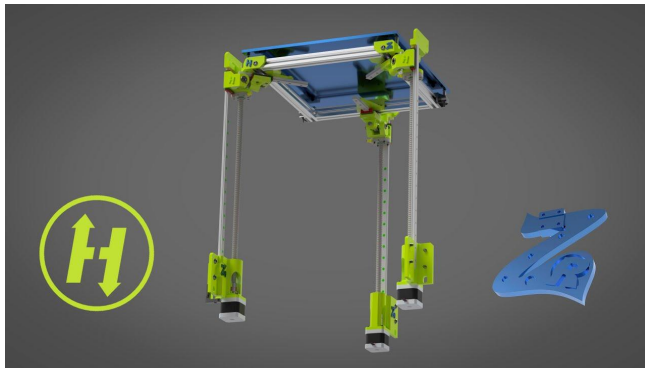
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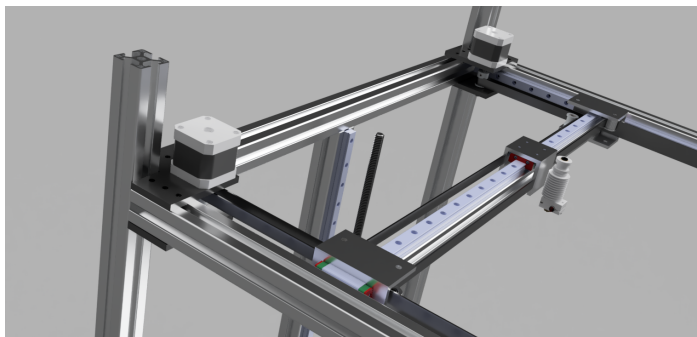
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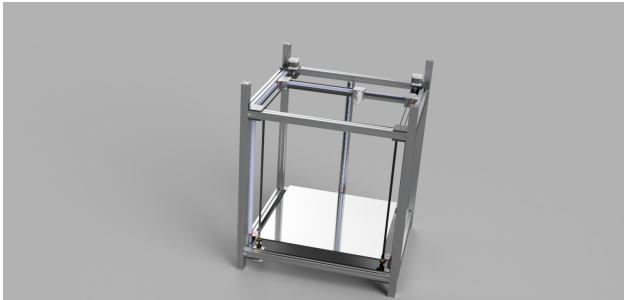
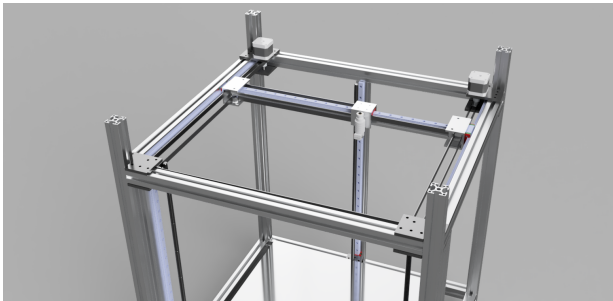
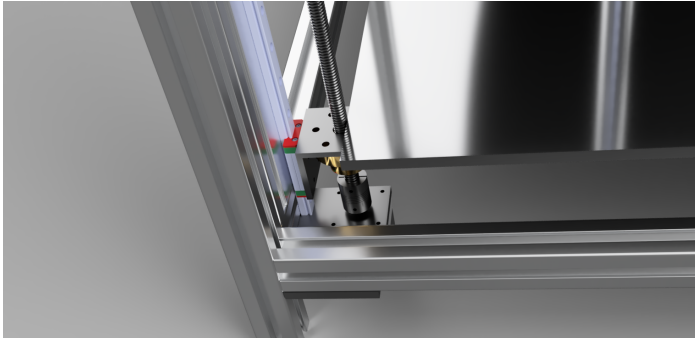


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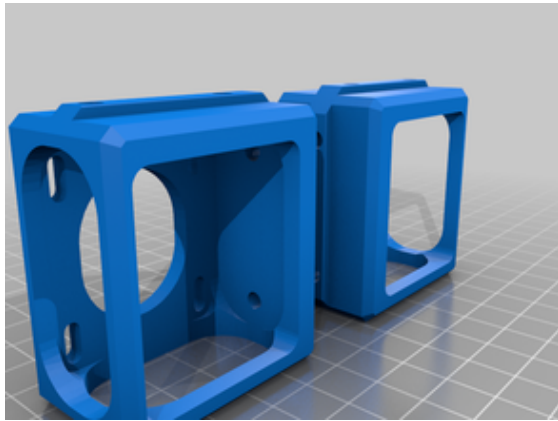
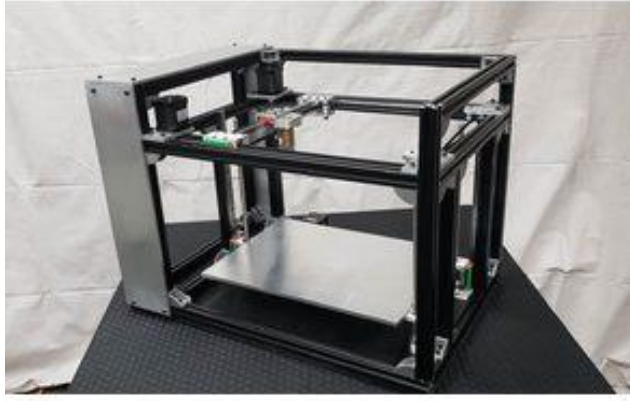
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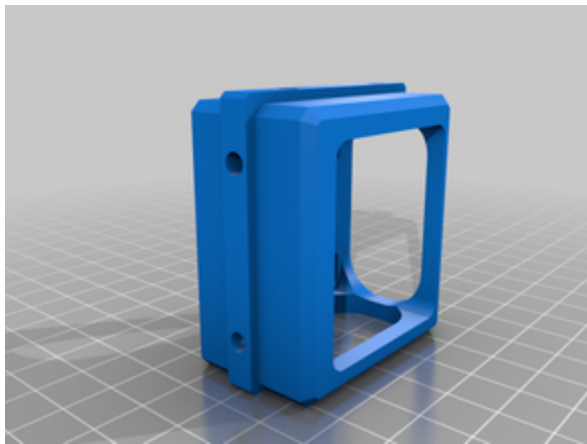
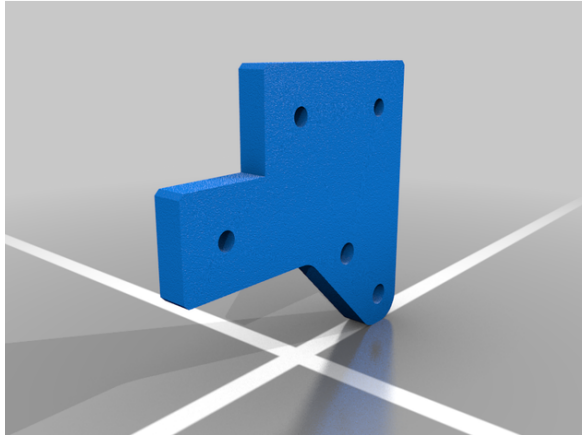




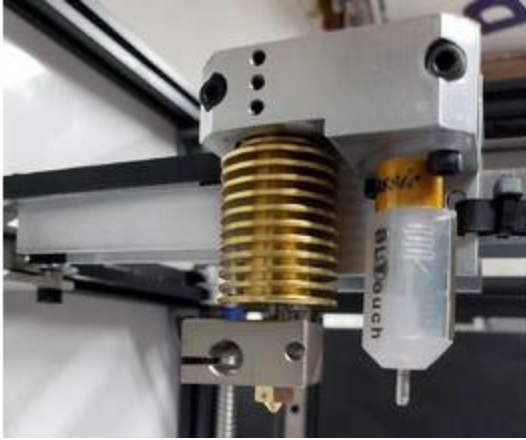
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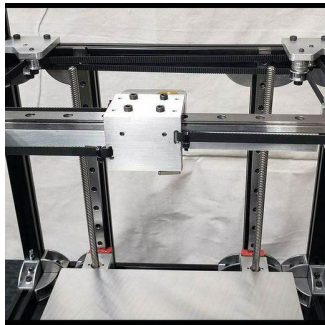
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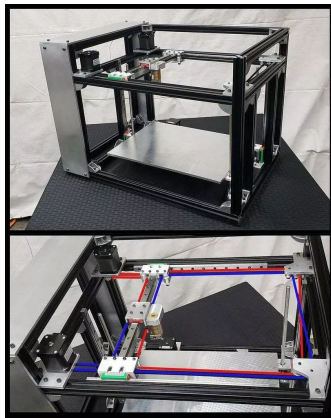
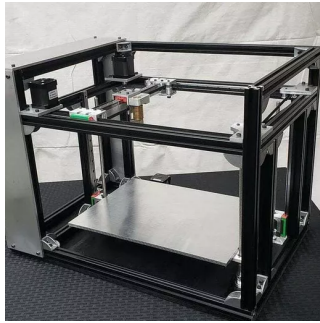


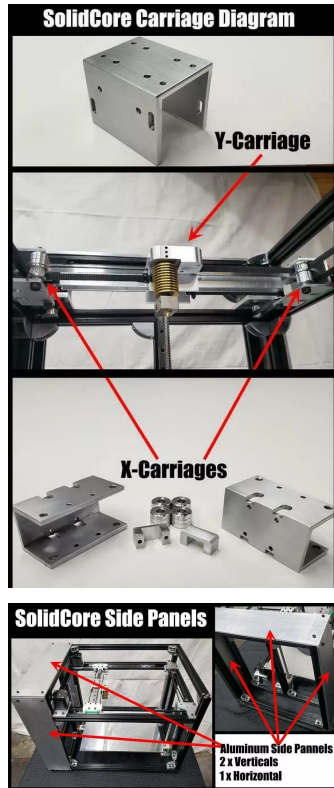
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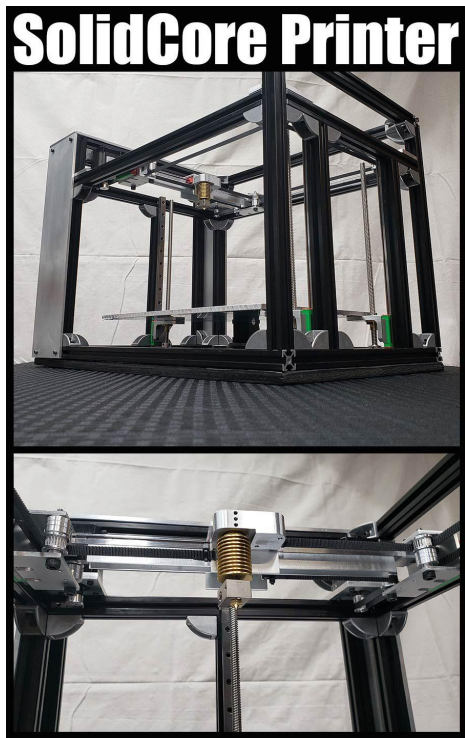




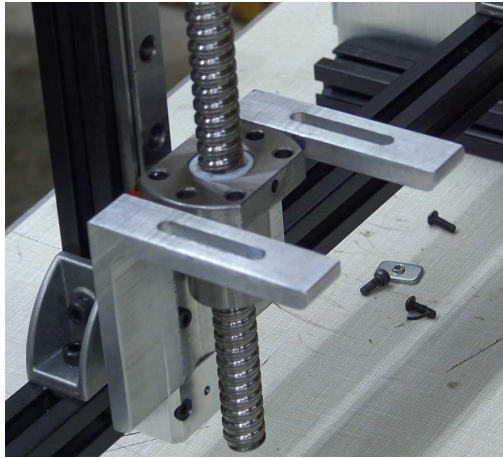
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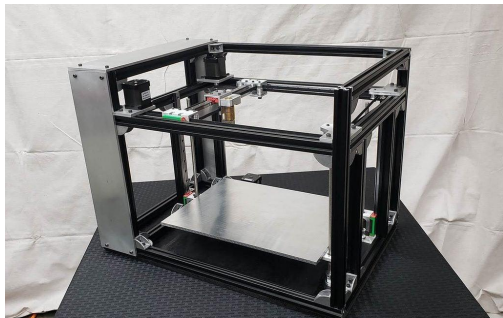


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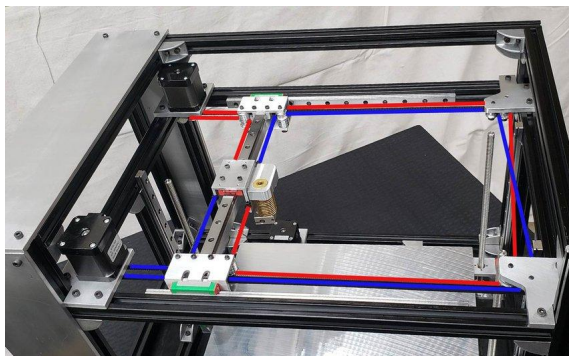
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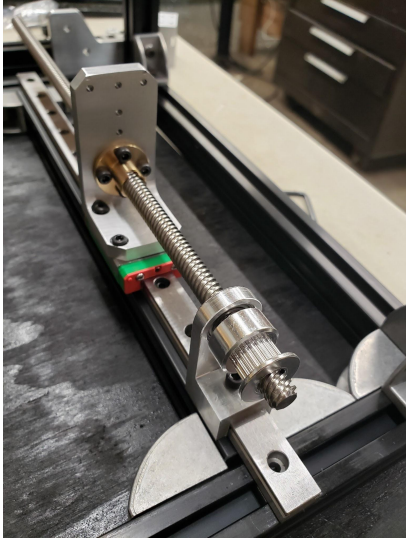


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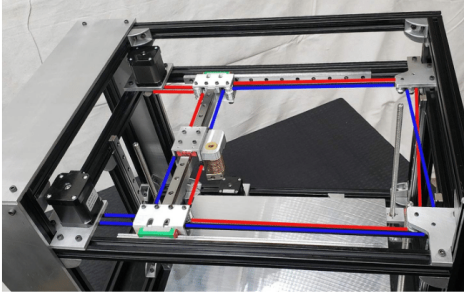
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CoreXY Mechanism

CoreXY Explained



CoreXY Explained

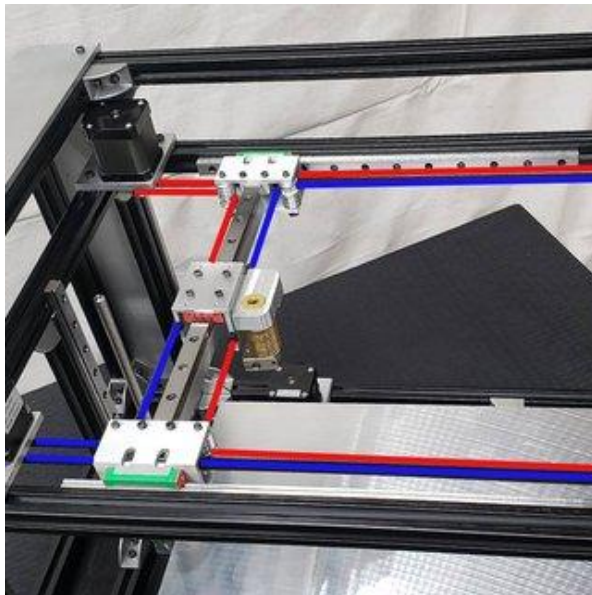
The corexy parallel kinematics mean's that the motors are the largest source of inertia within the system, and are stationary. This means rapid acceleration because the two [stepper motors](#) provide a means of moving both axes independently or simultaneously. The major benefit of the design is that the motors remain in a static position.

The corexy kinematics is a complex motion system where X or Y motor move together or opposite of each other to move the [carriage](#) from left to right or towards or away . If you were to move just one motor you would see the print head move diagonal. If the two motors move opposite of each other the print head will move along the X-axis. If the two motors move in the same direction the carriage will move along the [Y-axis](#).

CoreXY Kinematics

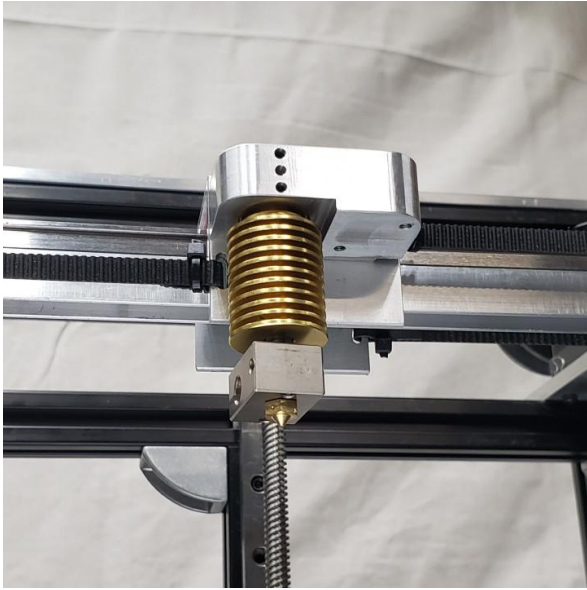
Two Motors

- Both Motors Move Clockwise >> Carriage Moves Left

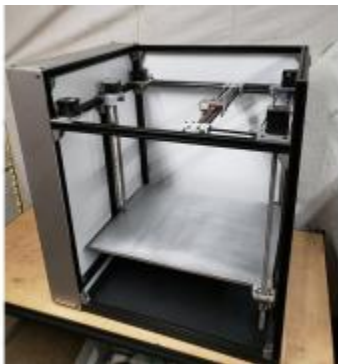
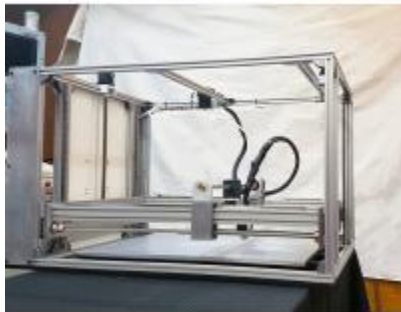


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CoreXY Carriage



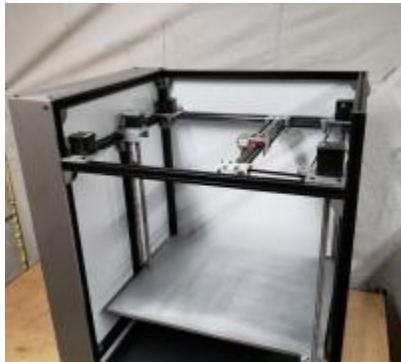
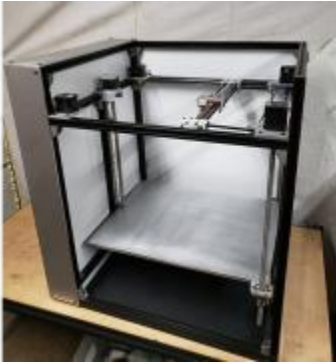
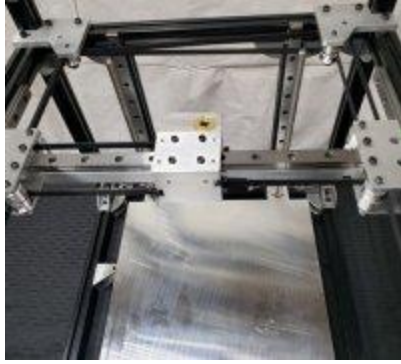
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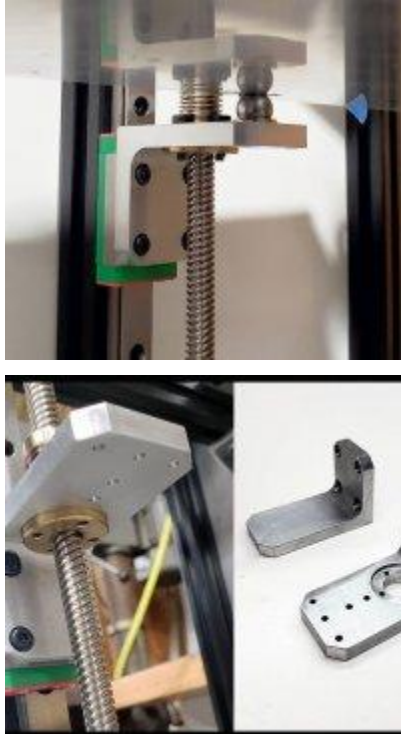


Yeggi CoreXY

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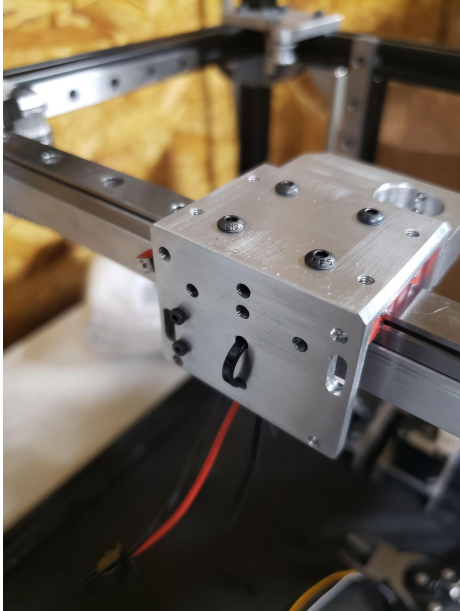




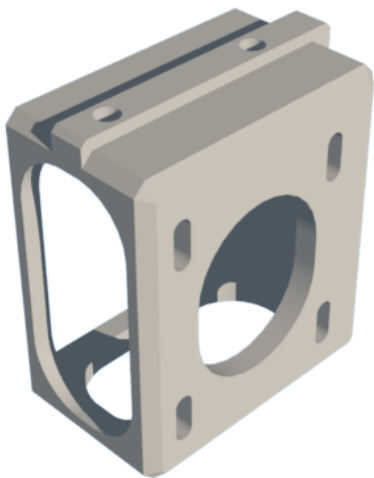
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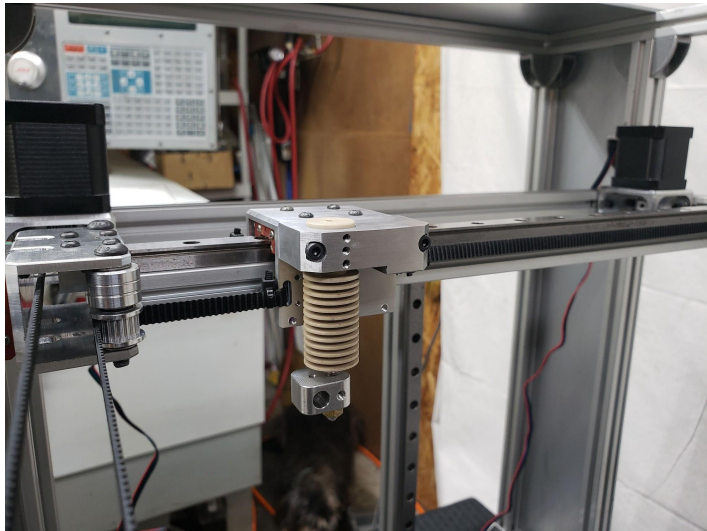
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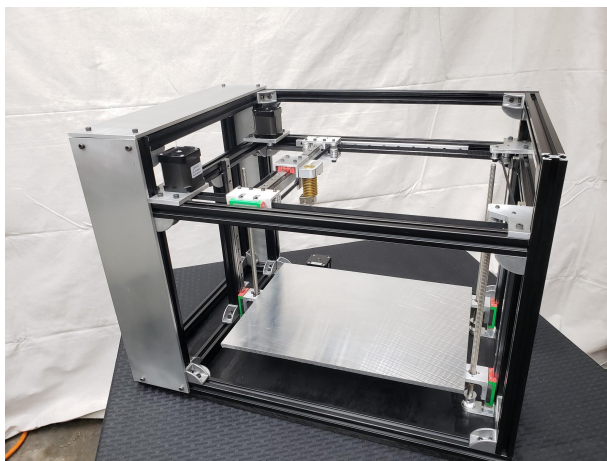
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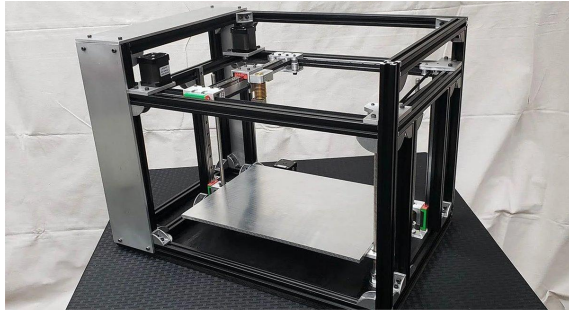
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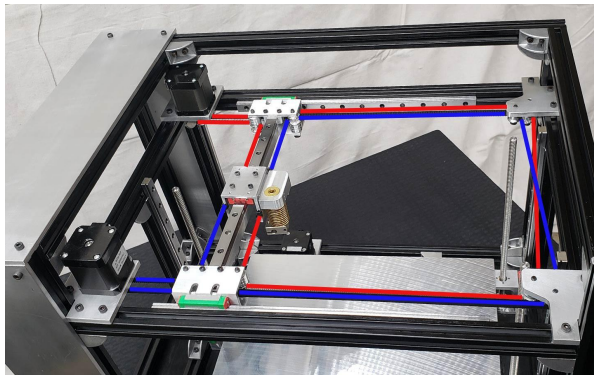


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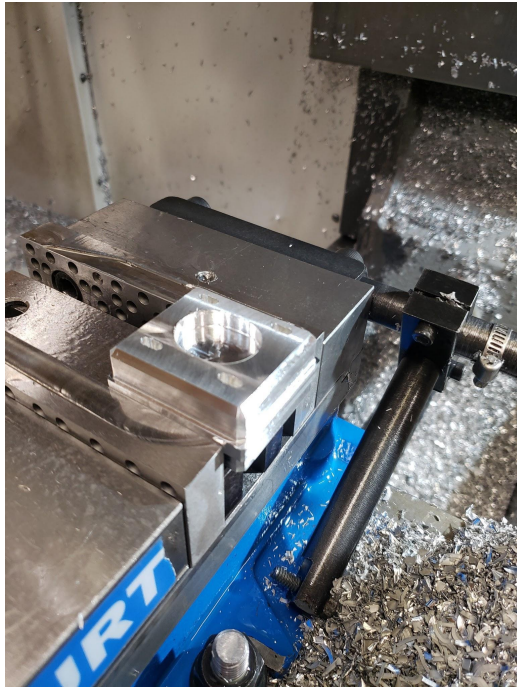
CoreXY Mechanism



CoreXY Belt Path: Crossed Belts vs Stacked Belts



CoreXY Motor Mounts

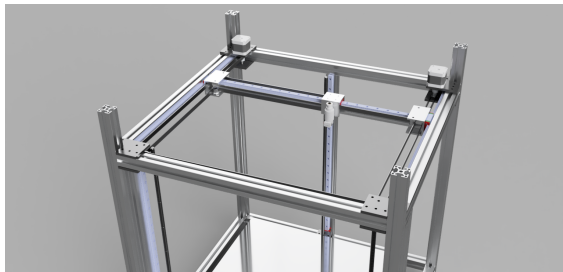
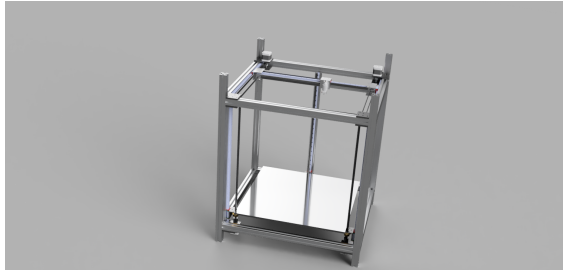


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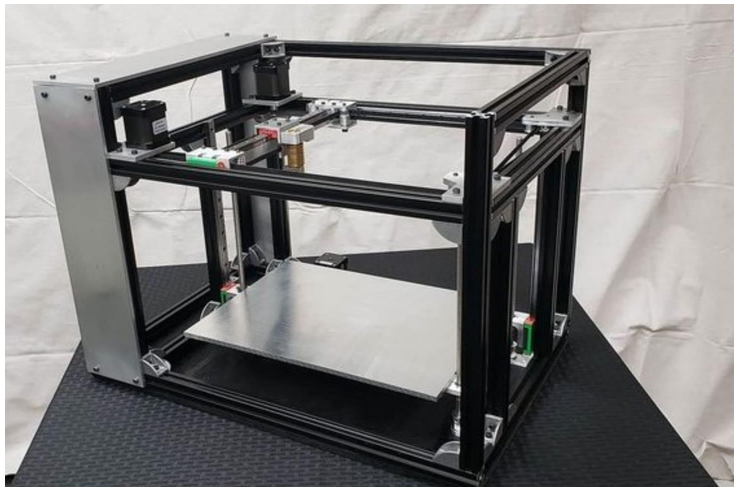
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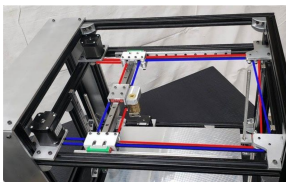
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CoreXY Explained



CoreXY Explained

The corexy parallel kinematics mean's that the motors are the largest source of inertia within the system, and are stationary. This means rapid acceleration because the two [stationary motors](#) provide a means of moving both axes independently or simultaneously. The major benefit of the design is that the motors remain in a static position.

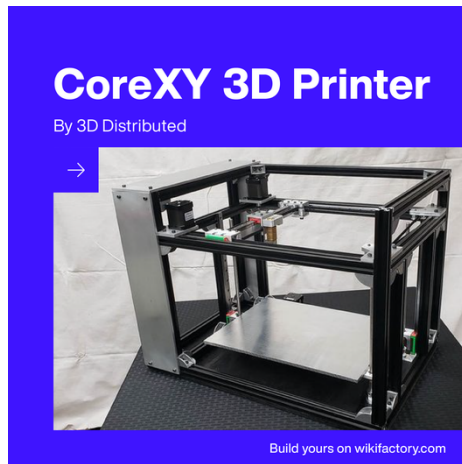
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CoreXY Kinematics

Two Motors

- Both Motors Move Clockwise --> Carriage Moves Left

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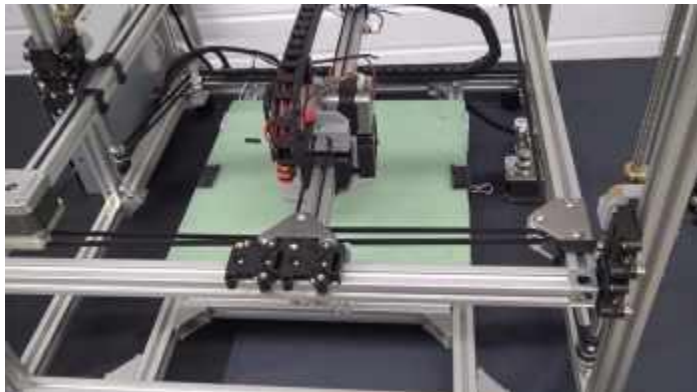
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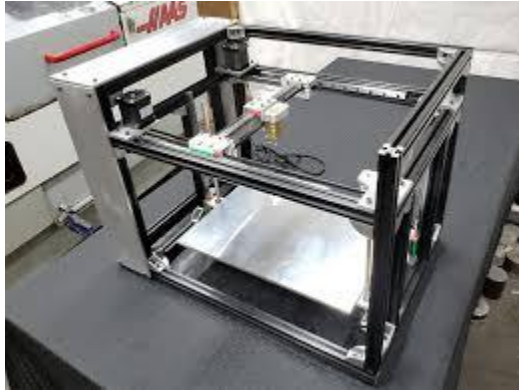
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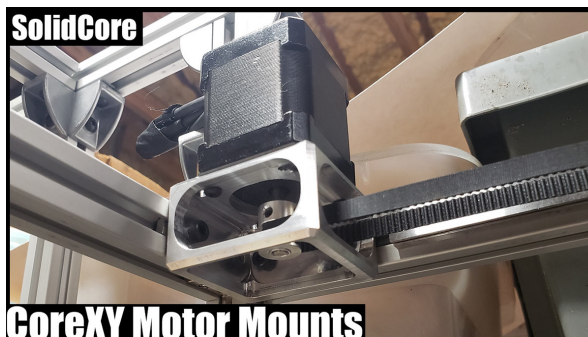


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