

# OPTIMUS V2



## USER INSTRUCTIONS



For more instructions/videos, please visit:  
**[www.febtop.com/support](http://www.febtop.com/support)**

## **SAFETY PRECAUTIONS:**

Only use original accessories from the manufacturer. The product should only be used for applications as described by the manufacturer. Do not install the product outdoors or in any place where it might become wet. Do not install the product in any place that might expose it to extreme heat or cold. Keep the product out of reach of children. Disconnect the device of all power sources before do any maintains or cleaning. The product should be kept out of direct sunlight. All flammable substance and materials should be kept away during machine operation. Power supply should be grounded. If there is no such option. do not use the machine. The product must not be discarded as unsorted municipal waste, it must be disposed of separately.

The laser is class 4 laser. Class 4 lasers are hazardous for eye exposure. They also can burn skin and materials, especially dark and lightweight materials at close range. They should be used with extreme care. For visible-light lasers, class 4 lasers is most hazardous classification of lasers. All the times, wear your safety glasses when working with the laser. Do NOT modify or disable any safety features of the laser system. DO NOT look directly into the laser beam. DO NOT use materials that are highly flammable, explosive or produce toxic byproducts.. DO NOT remove materials from the cutting bed before it has cooled. DO NOT leave a laser cutter operating unattended. ALWAYS clean up clutter, debris and flammable materials in the laser cutter after use. ALWAYS keep a properly maintained fire extinguisher nearby.

Perform all setup work with spindle stopped. Always stop the spindle completely before changing or adjusting the work piece, bits. Users should never wear gloves while operating the machine. Jewelry should be avoided as some can conduct electrical charges as well as getting caught in the machinery. Wearing loose clothing is also prohibited since the operator risks getting pulled in the machinery.

## STEP 1: Mounting two Zaxis sliders with two provided struts.

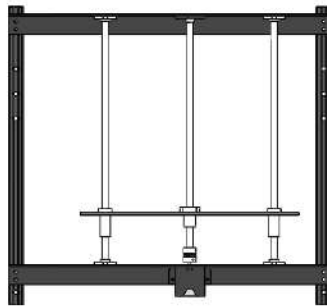
### Part List



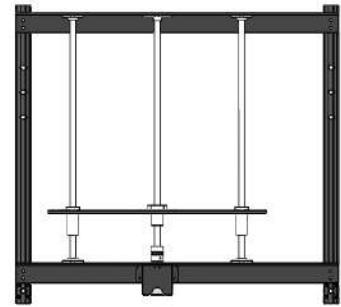
Two 30X30 648mm struts



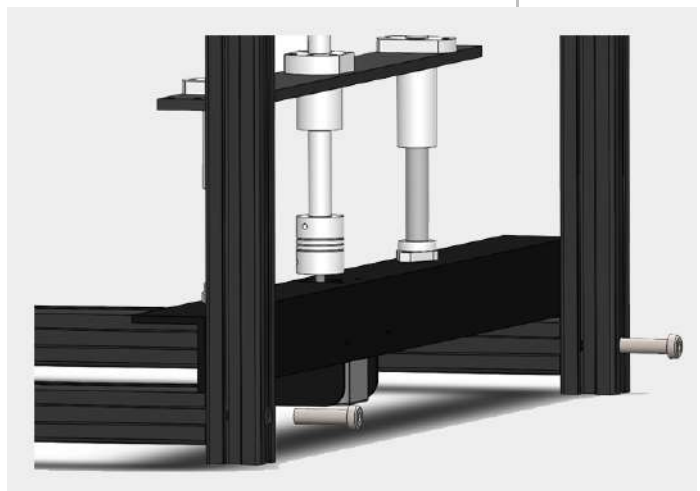
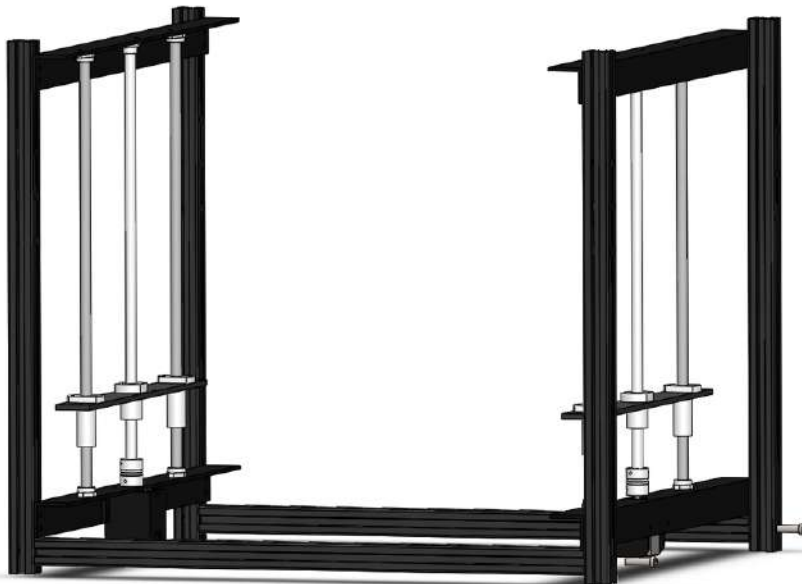
M8-30 X 4



V2 Z-axis Left



V2 Z-axis Right



## STEP 2: Mounting another two struts on the top of Zaxis sliders.

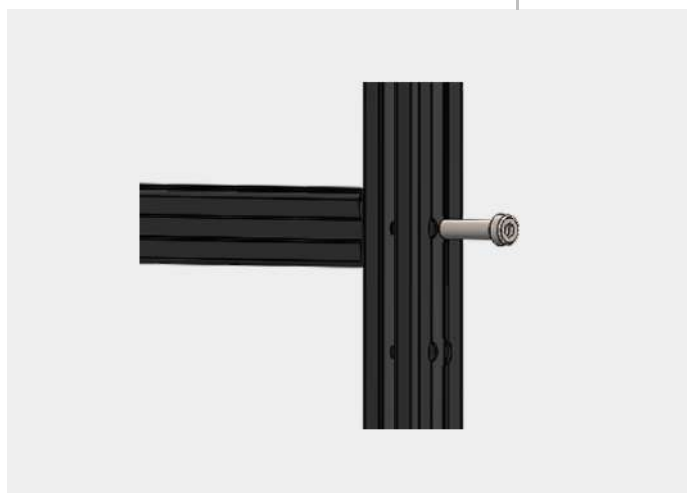
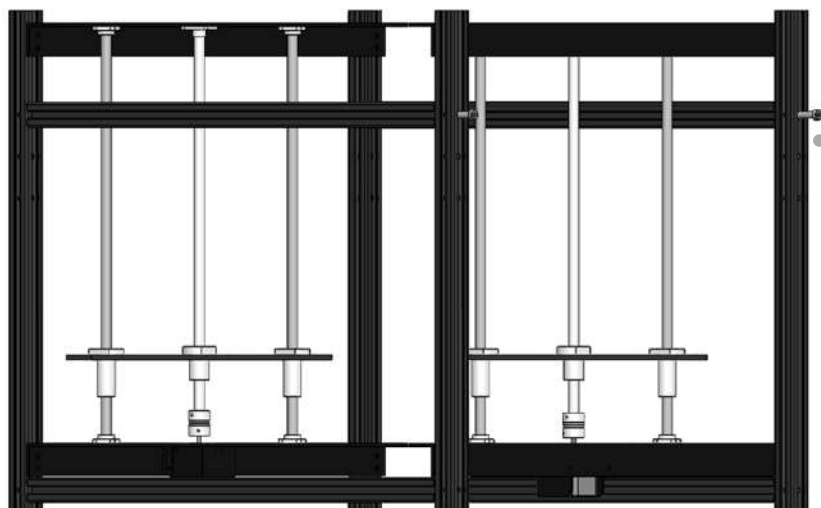
### Part List



Two 30X30 648mm struts



M8-30 X 4



### STEP 3 : Mounting the two printed parts for pressing the endstops.

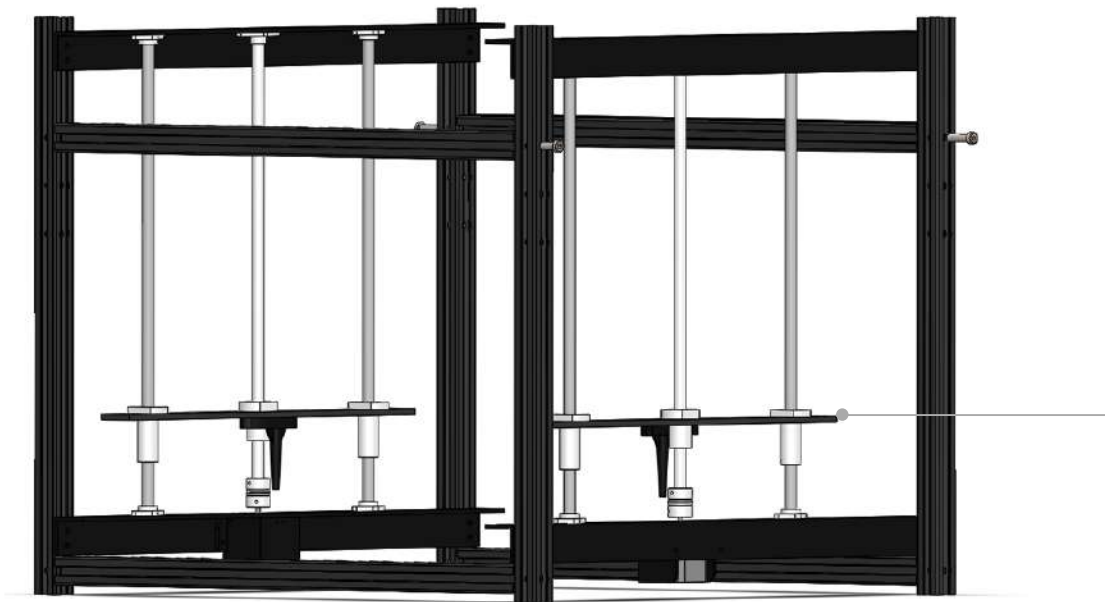
#### Part List



Two printed parts



M4-16 X 4



## STEP 4 : Assembly X-Y plane

### Part List

\* If you bought V2-upgrade kits, you should have all the parts from your OPTIMUS-V1



M4-20 X 16



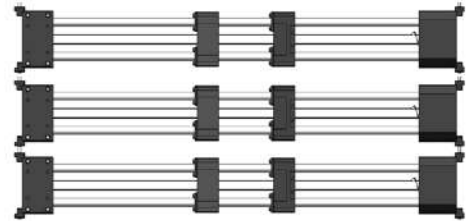
M4-16 X 16



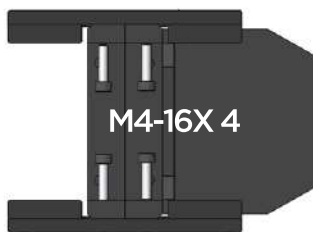
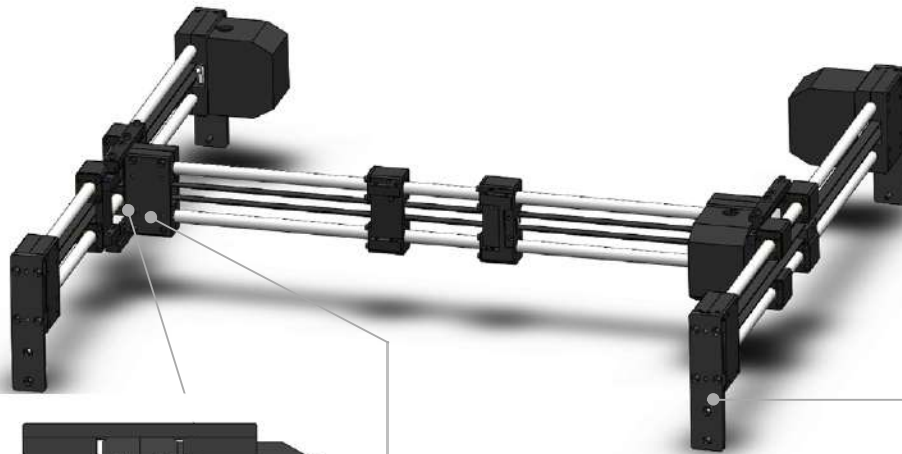
Connector Part X 4



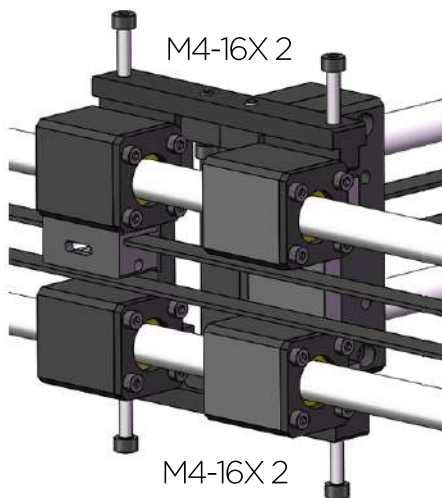
Connector Part X 4



3 Sliders



M4-16X 4



M4-16X 2

M4-16X 2



M4-20X 4

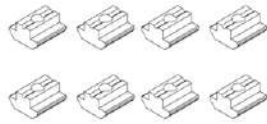
## STEP 5 : Mounting the X-Y plane

### Part List

\* If you bought V2-upgrade kits, you should have all the parts from your OPTIMUS-V1



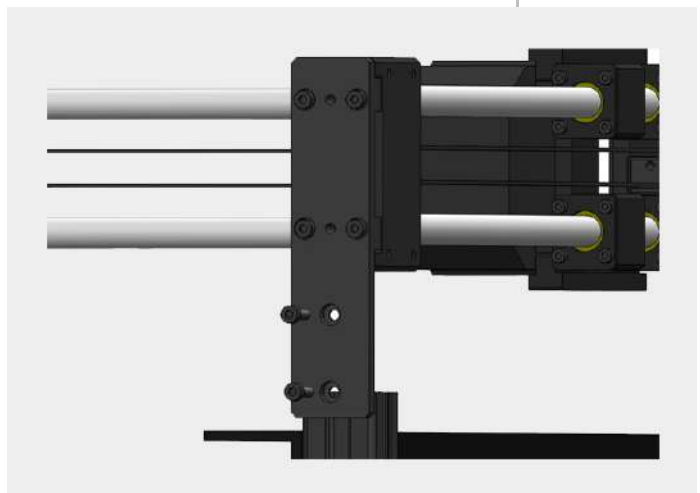
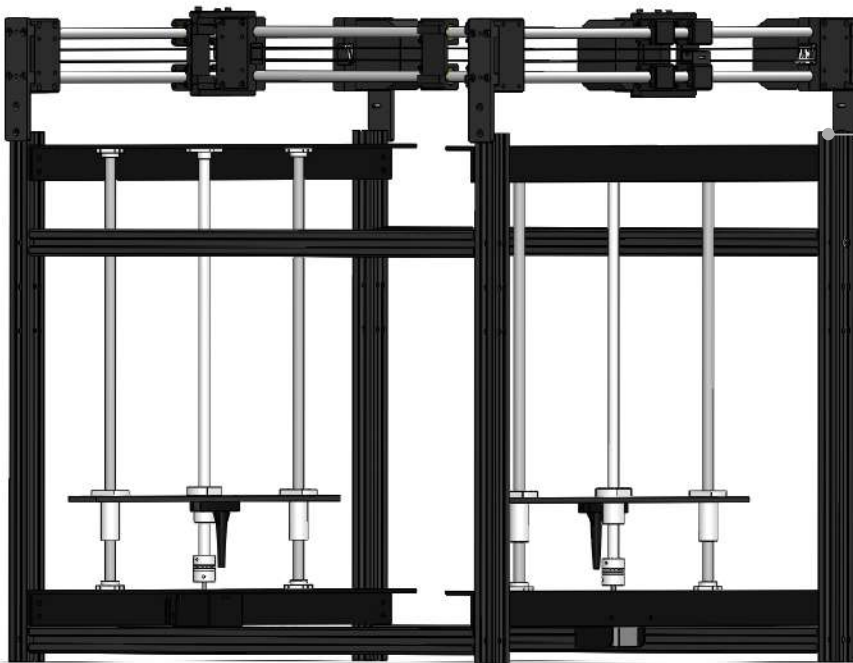
M4-12 X 8



T-slot nuts X 8



X-Y Plane Structure

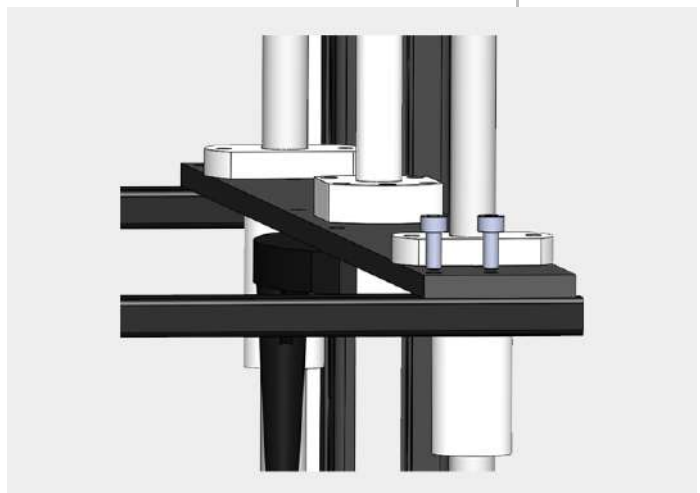
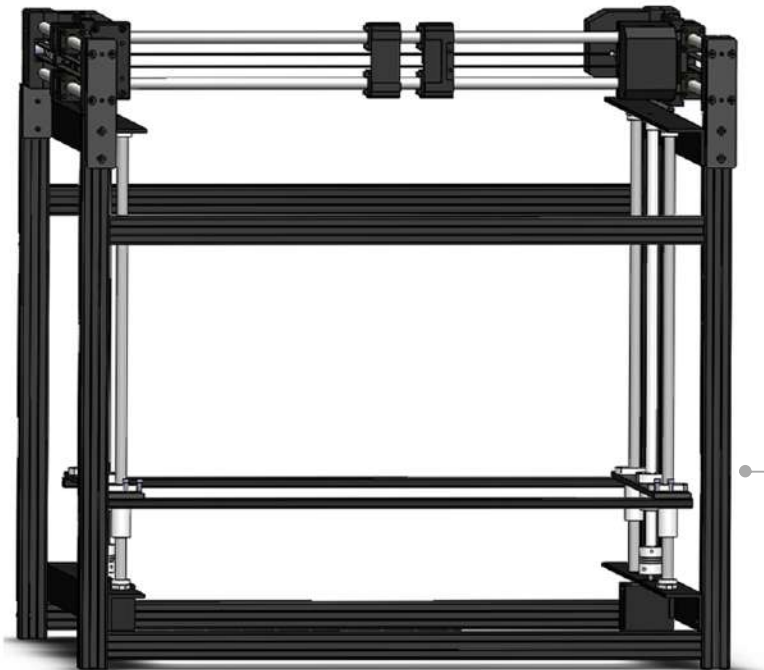


## STEP 6: Mounting two struts on the Zaxis sliders.

### Part List



Two 20 x 10 638mm struts



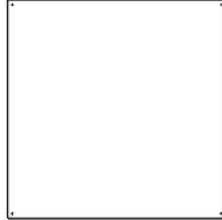


## STEP 7 : Mounting aluminum print bed

### Part List



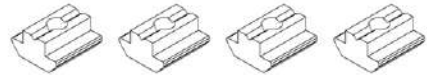
M4-25 X 4



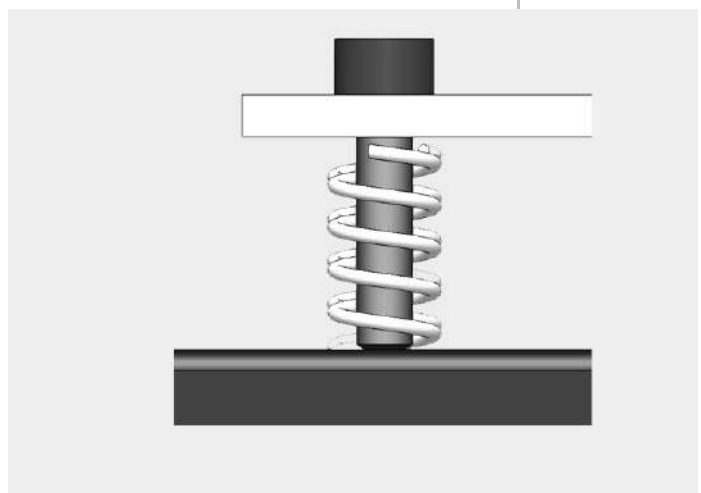
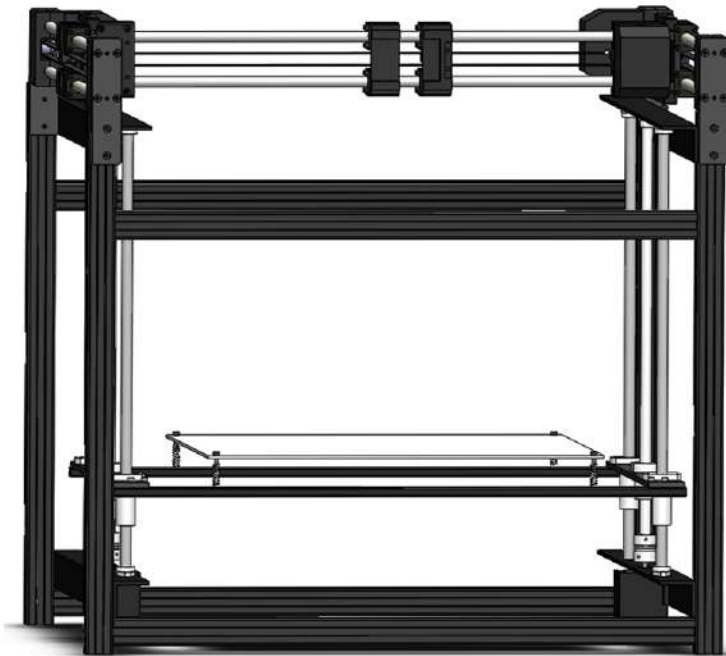
Print Bed



Springs X 4



T-slot nuts X 4



## STEP 8: Mounting printed parts for cable chain and filaments holder

### Part List



M4-25 X 3



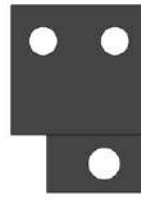
M4-16 X 2



A

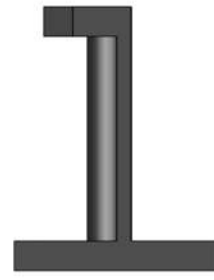


B

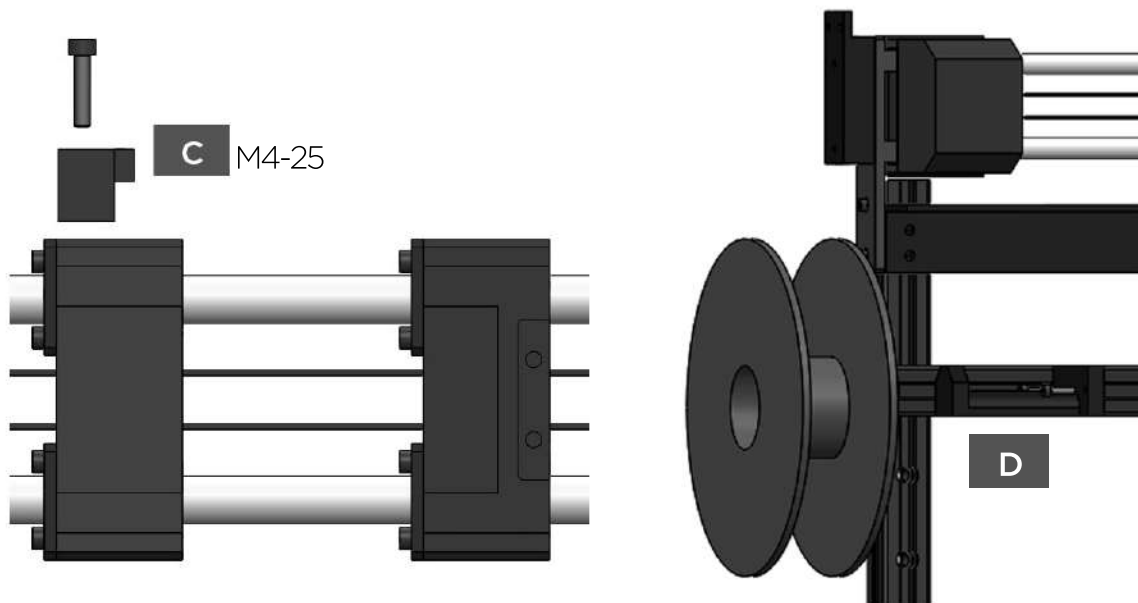
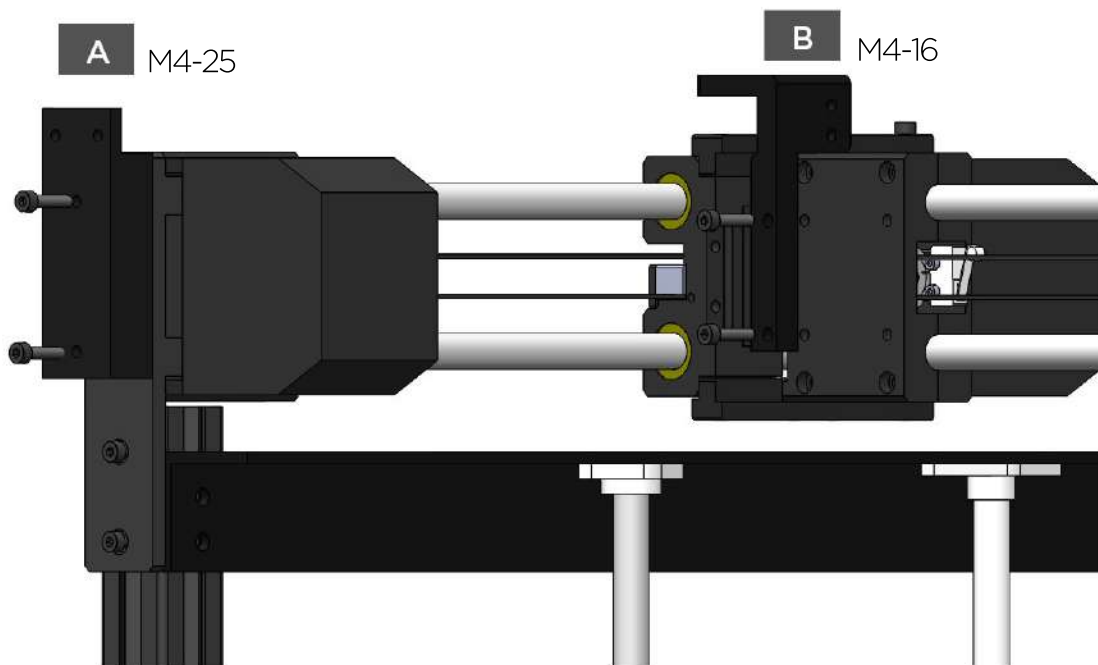


C

Print parts



D



## Mounting Cable Chain

### Part List



Cable Chain 15 X 30



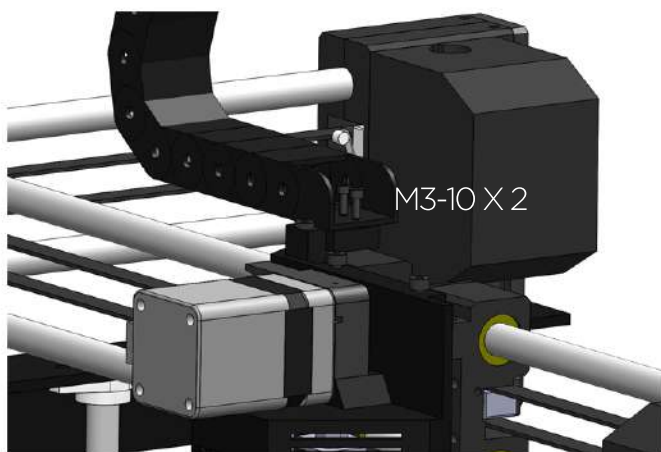
Cable Chain 15 X 20



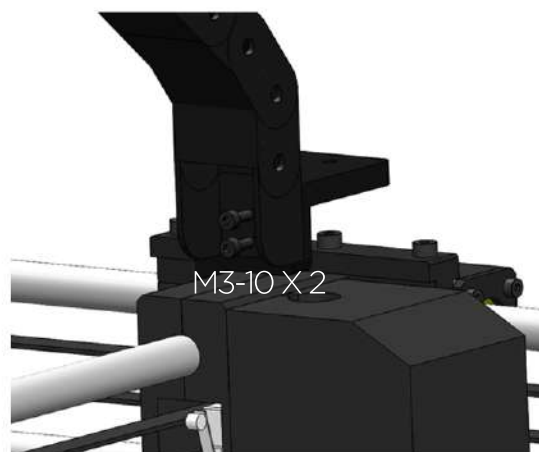
M3-10 X 4



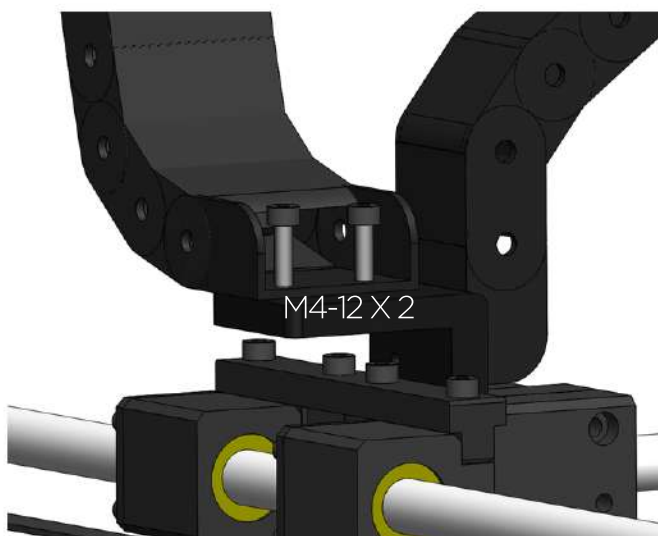
M4-12 X 4



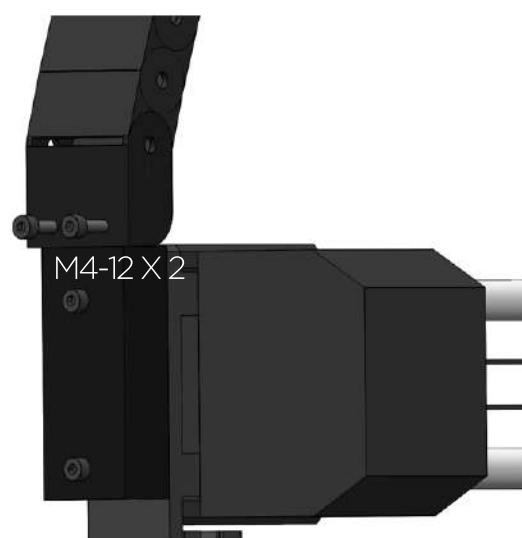
M3-10 X 2



M3-10 X 2



M4-12 X 2



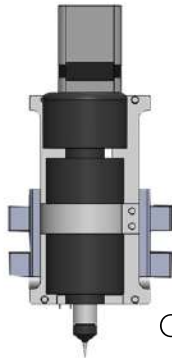
M4-12 X 2

## CNC SETUP

### Part List



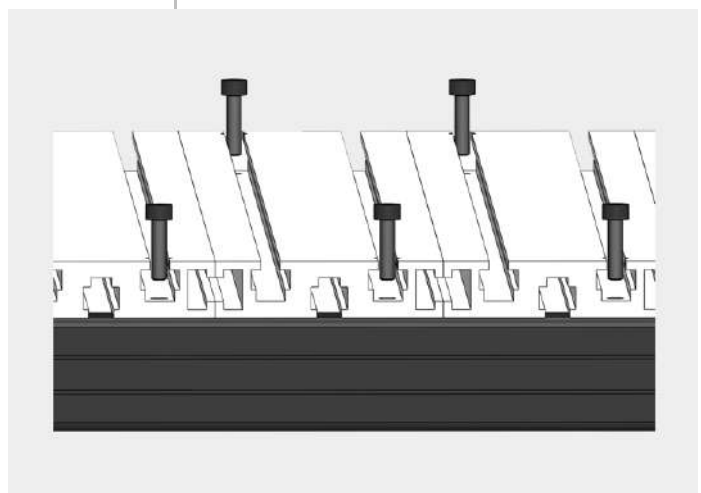
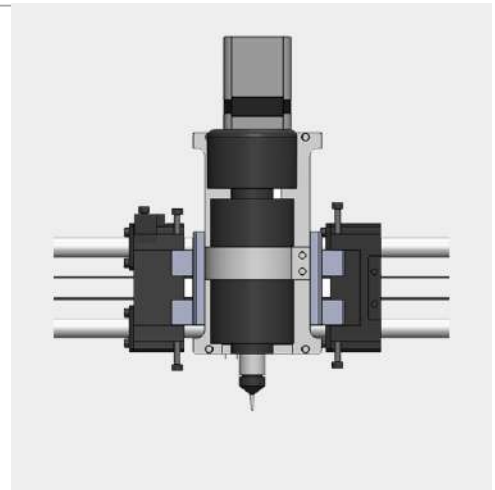
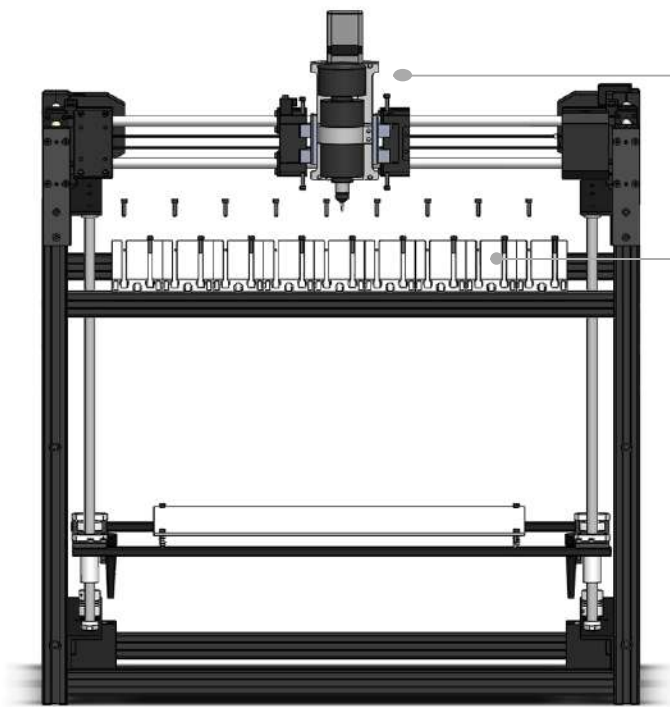
M4-16 X 4



CNC Head



9 T-slot Bed



## Laser setup

### Part List



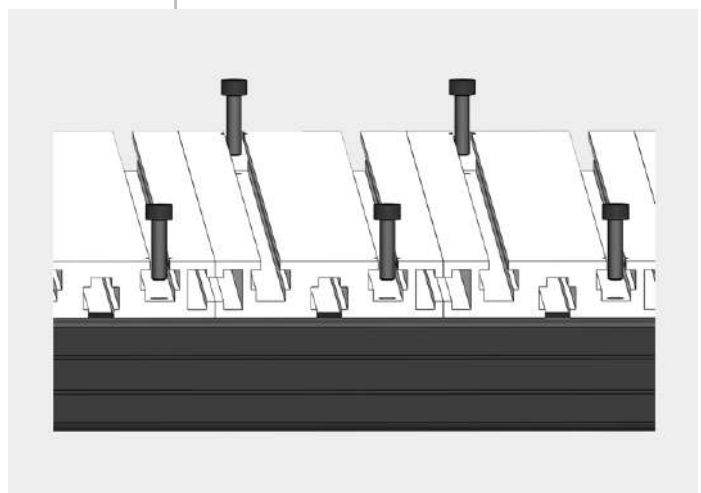
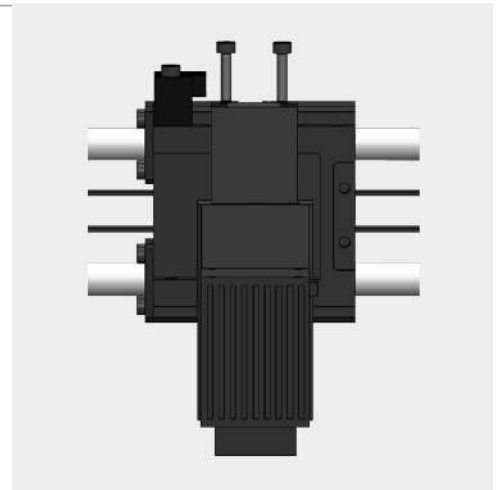
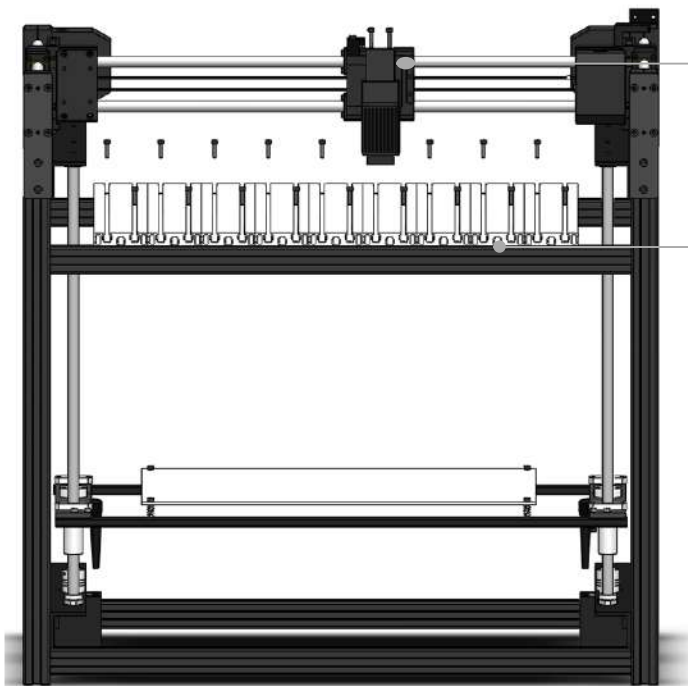
M4-16 X 4



Laser Head



9 T-slot Bed

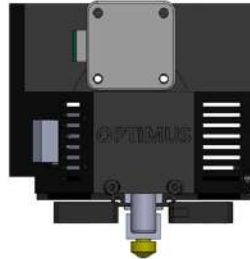


## Mount the 3D Printhead

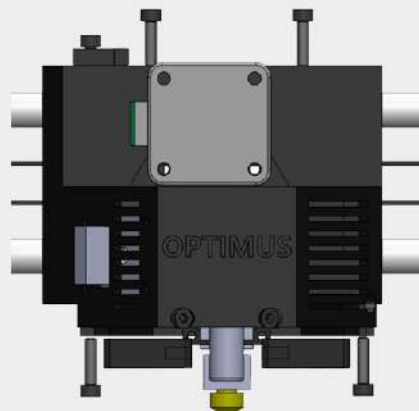
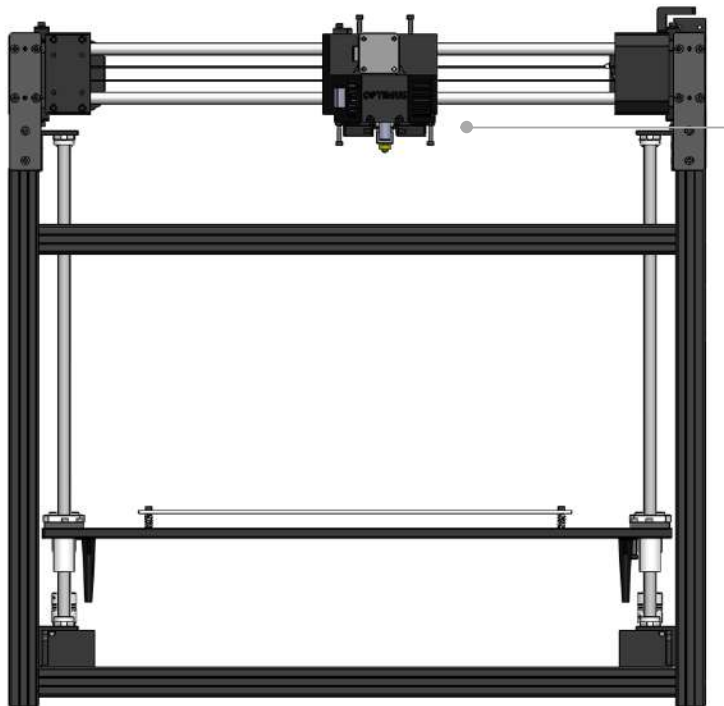
### Part List



M4-16 X 4



Print Head

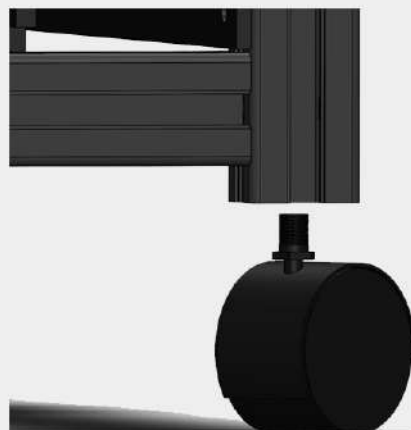
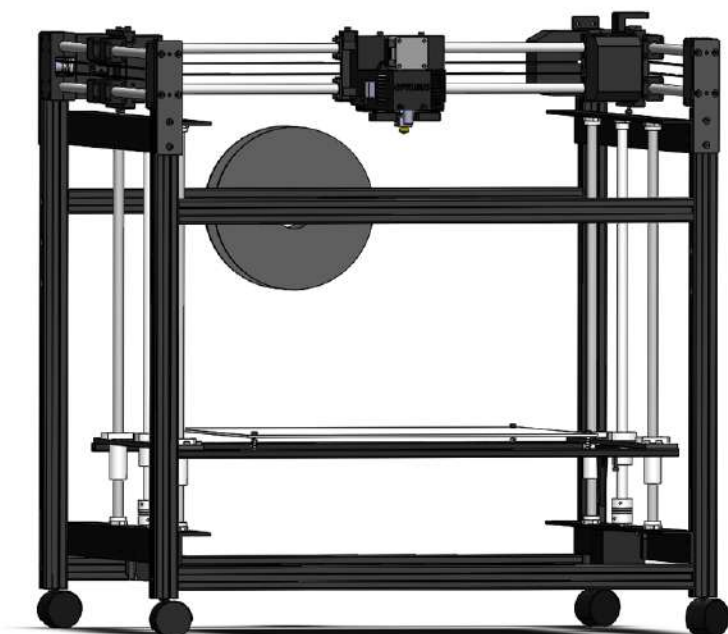


## Wheels installation

### Part List



Wheels X 4



**READY. SET. INNOVATE**



[www.febtop.com/support](http://www.febtop.com/support)

---