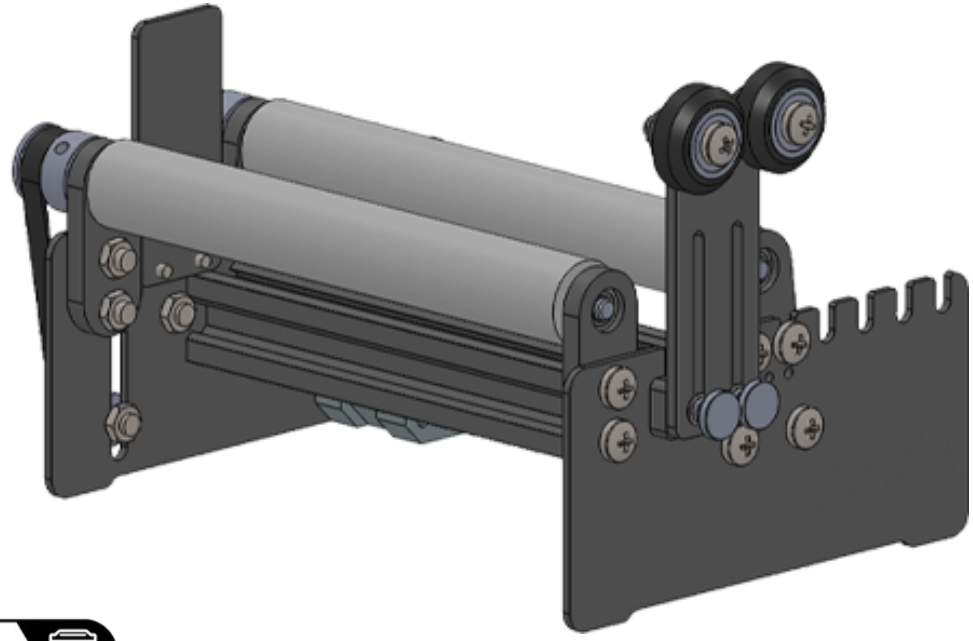
Y-AXIS ROTARY ROLLER YRR 2.0

Assembly Manual

Support



English

Deutsch

Français

RoHS MADE IN CHINA

Features

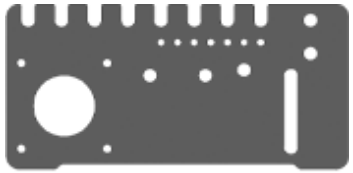
1. The Y rotary roller is used for laser engraving cylindrical objects of varying diameters.
2. This product is an accessory for the laser engraverof the same series, not an independent device. In order to maintain the highest efficiency, it needs to be used in conjunction with the laser engraver produced by our company.

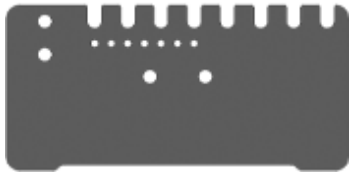
Tips

1. This product can be used in conjunction with other brands of laser engraver. However, a perfect match cannot be guaranteed therefore the company will accept no responsibility for damage caused.
2.The assembly of the machine must be carried out on a flat surface.

English

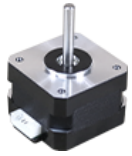
Parts List





Gear Position Plates ×2

2040 Aluminum Profile ×1



Motor ×1

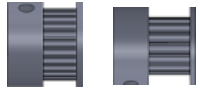
Timing Belt ×1

Fixed Roller Holders ×2
Removable Roller Holders ×2

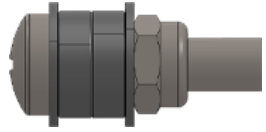
Rollers ×2

Bearings ×4

Motor Cable ×1



16 Tooth Timing Belt Pulley ×1
25 Tooth Timing Belt Pulleys ×2



M5×20 Screws ×2
& Bearings ×4
& Lock Nuts ×2

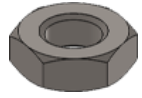
M5 Spacers ×2

Wheels ×2

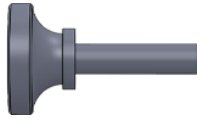
Guide Wheels Lifting Plate ×1

Roller Baffle ×1

M5 Spring Washers×2

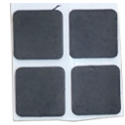


M5 Nuts ×12



M3×12 Thumb Screws ×2

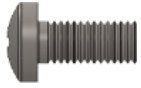
Guide Wheel Spacer ×1



Non-slip Pads ×4

1.5mm Hex Wrench ×1
2.0mm Hex Wrench ×1

M3×6 Screws ×6



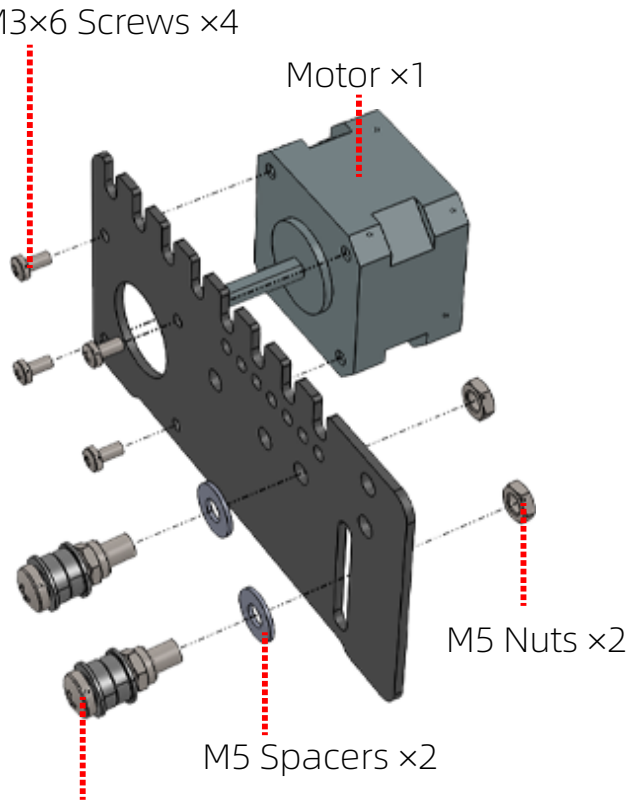
M5×12 Screws ×12

M5×20 Screws ×2

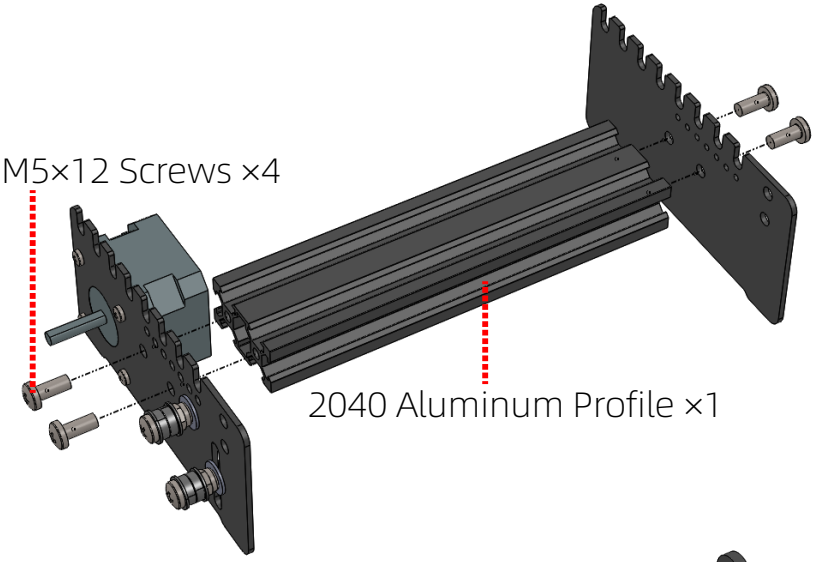
8-10 Wrench ×1

Assembly steps

1



2



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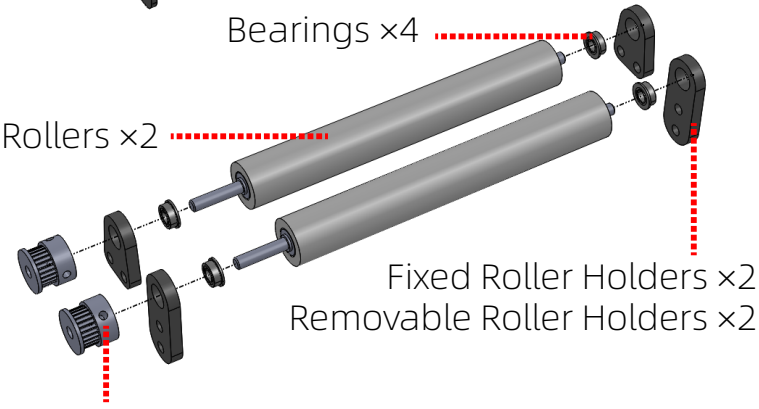
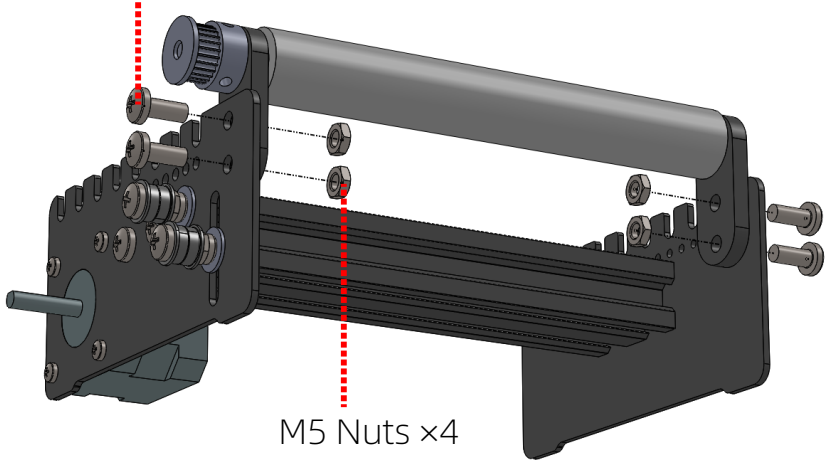


4

M5×12 Screws ×4

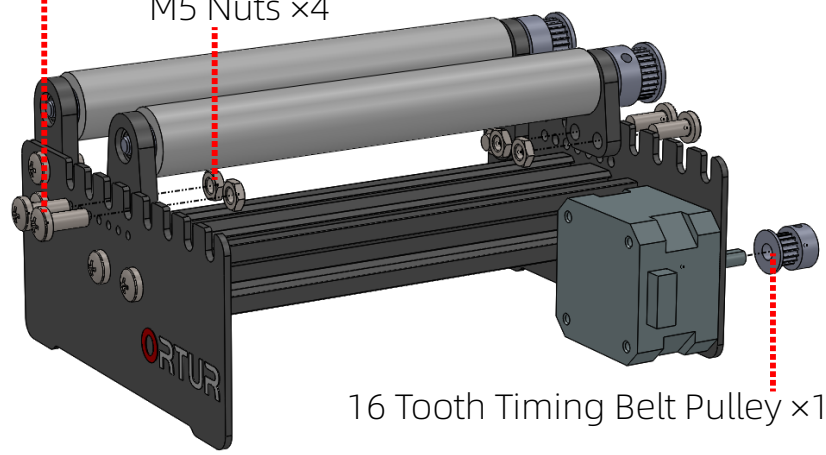


M5 Nuts ×4

5

M5×12 Screws ×4

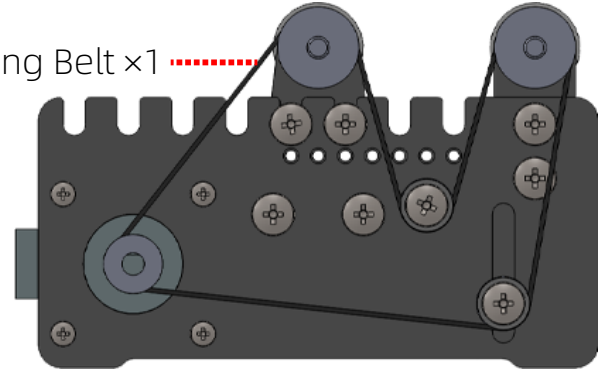
M5 Nuts ×4

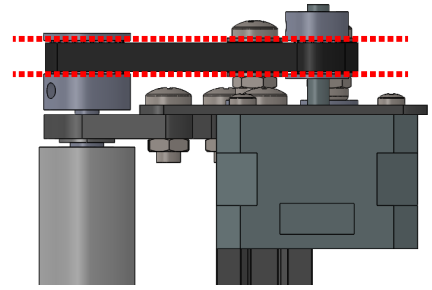


16 Tooth Timing Belt Pulley ×1

6

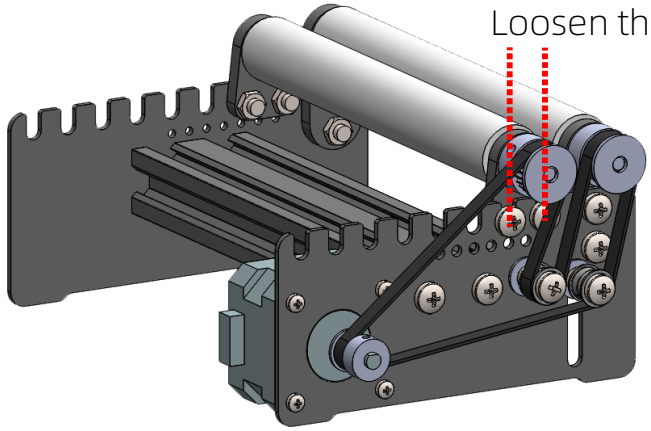
Timing Belt ×1

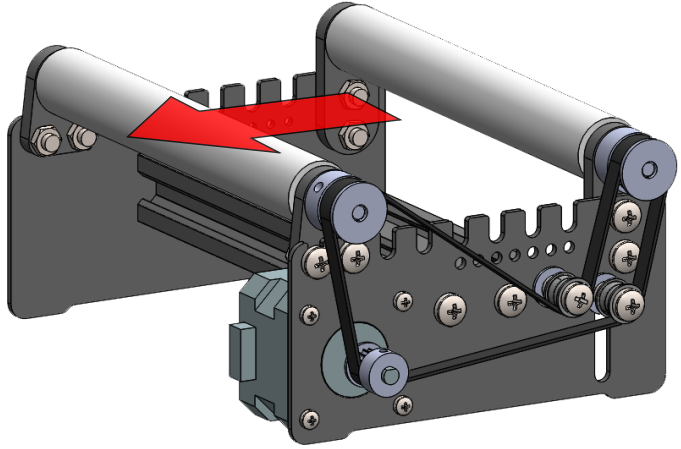




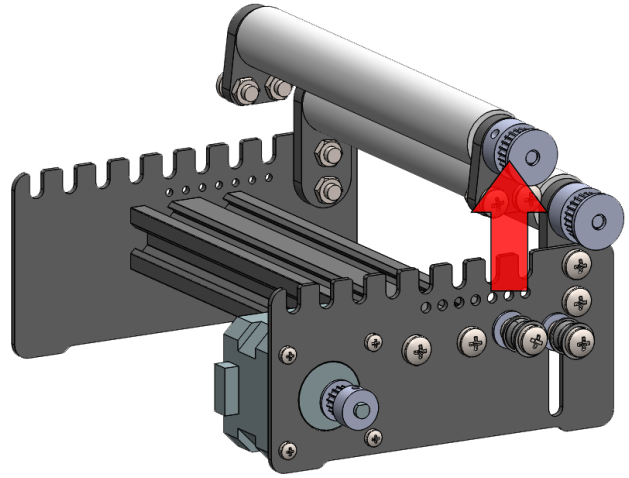
Align These Pulleys and Bearings Horizontally

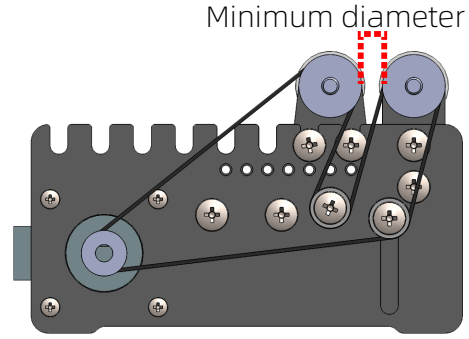
Method of Application of the Y Axis Rotary Roller





There are 7 gears to choose from and adjust

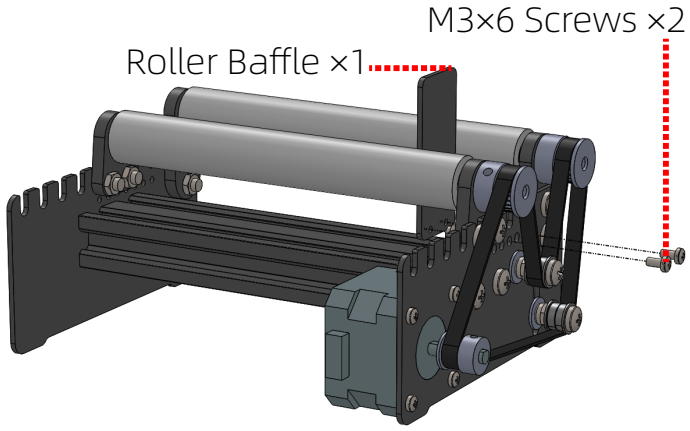




The minimum diameter of each gear, from right to left: 8mm, 20mm, 30mm, 45mm, 60mm, 80mm,100mm

The Assembly Drawing of Cone Object Laser Engraving Kit

1



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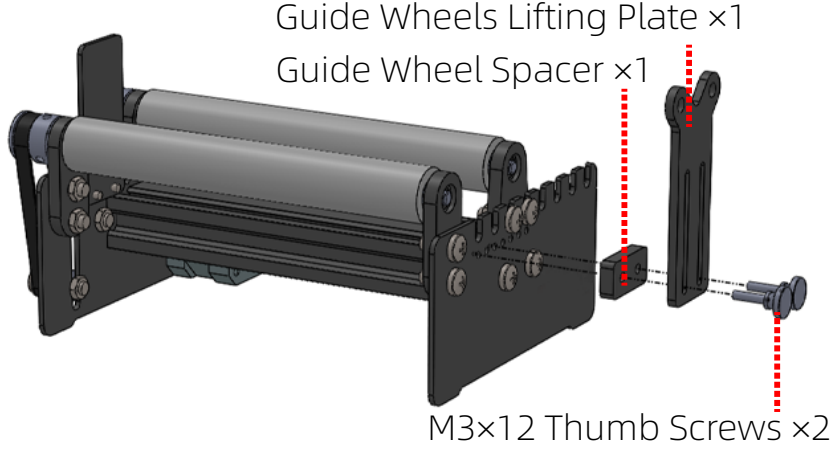

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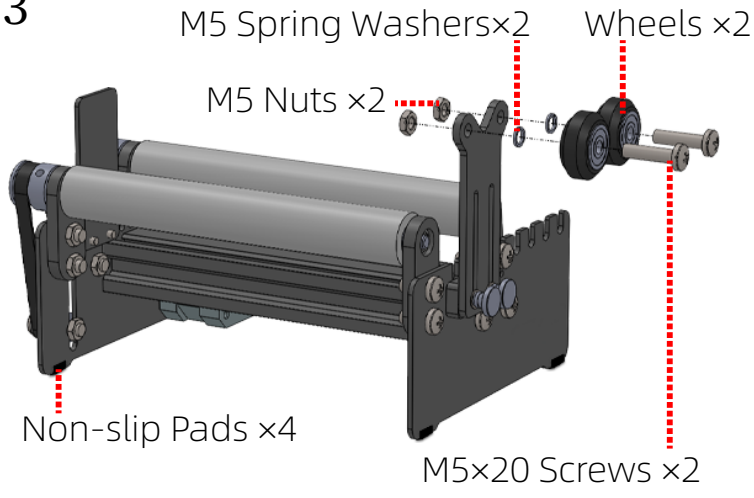
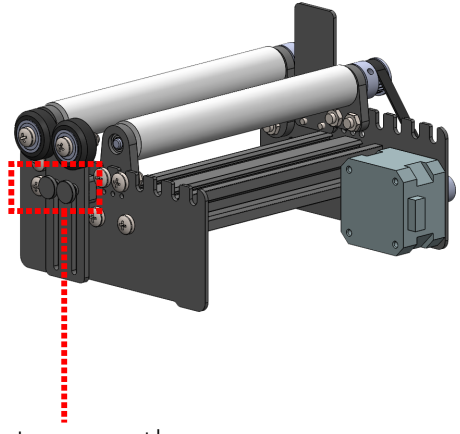
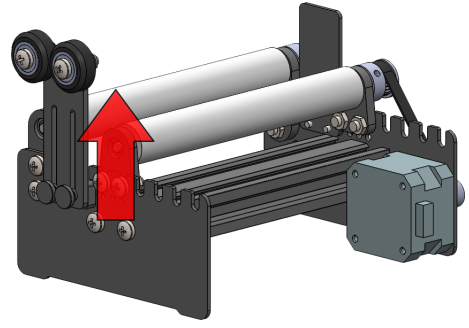
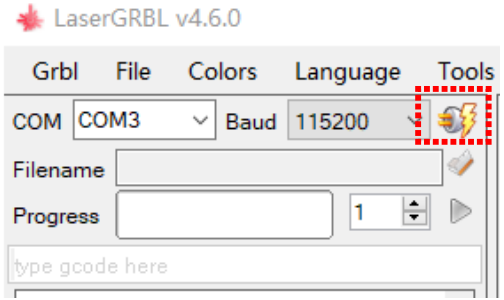




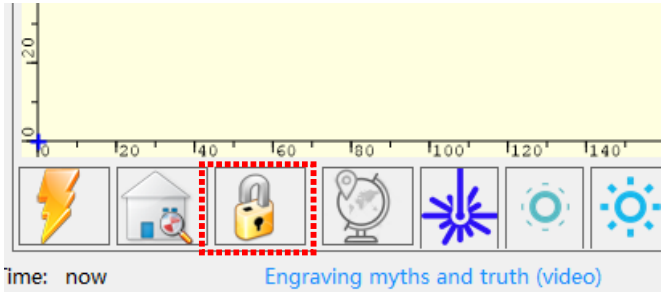


Setting Procedure

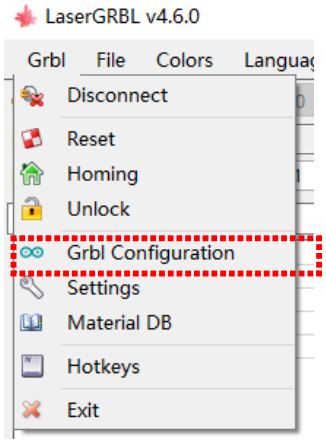
1. Turn off the Automatic Home function.
(Please skip this step if your laser engraver does not have this function.)



1. Turn on the laser engraver, openthe LaserGRBL software on computer, and connect the laser engraver.

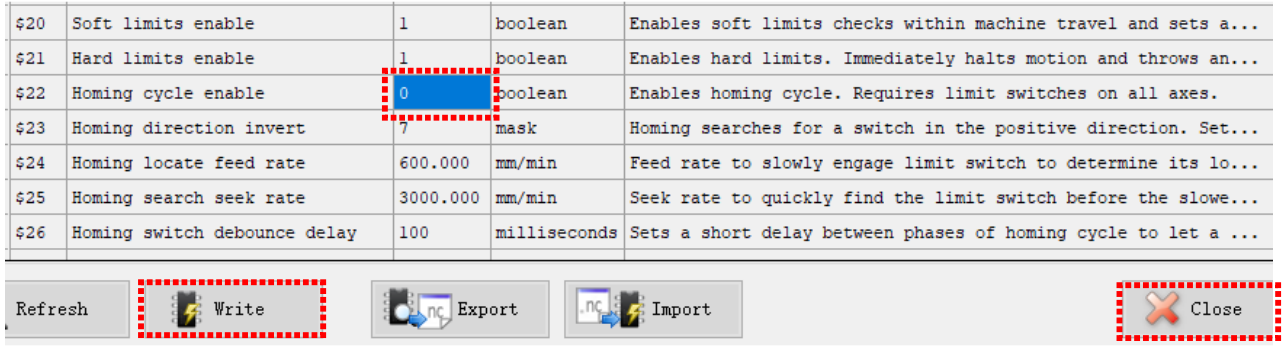


2. Unlock the laser engraver.



3. Open Grbl Configuration.

4. Change the value here to 0, to turn off the Automatic Return to Origin function.

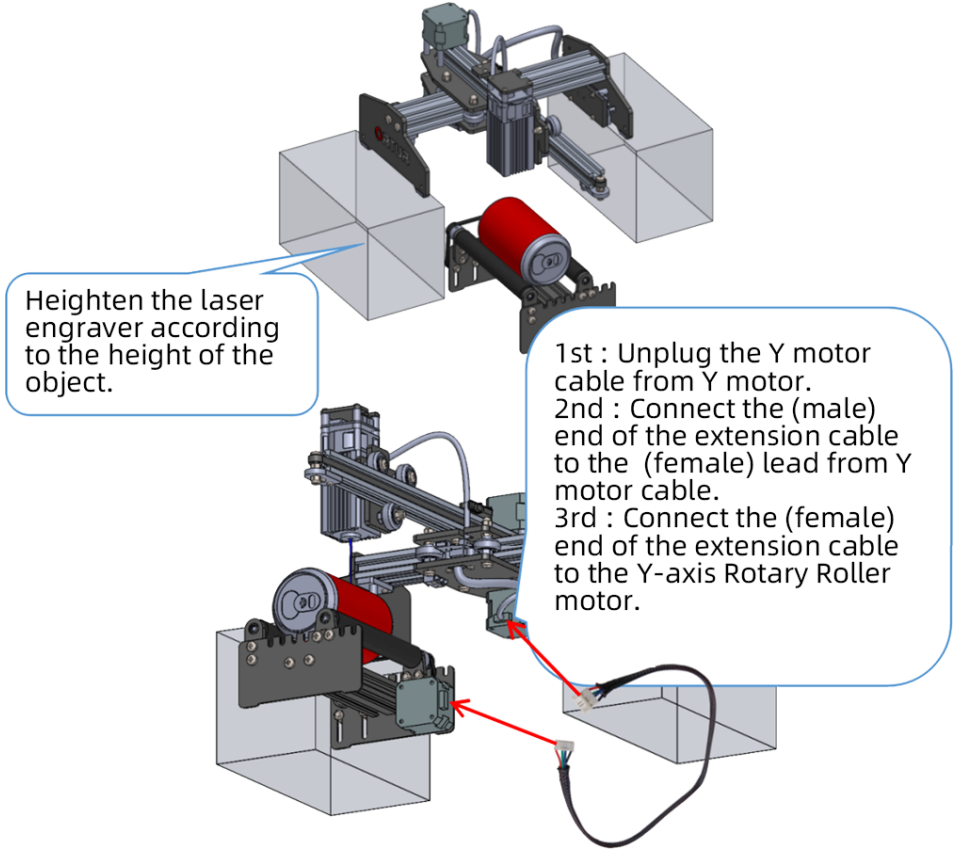


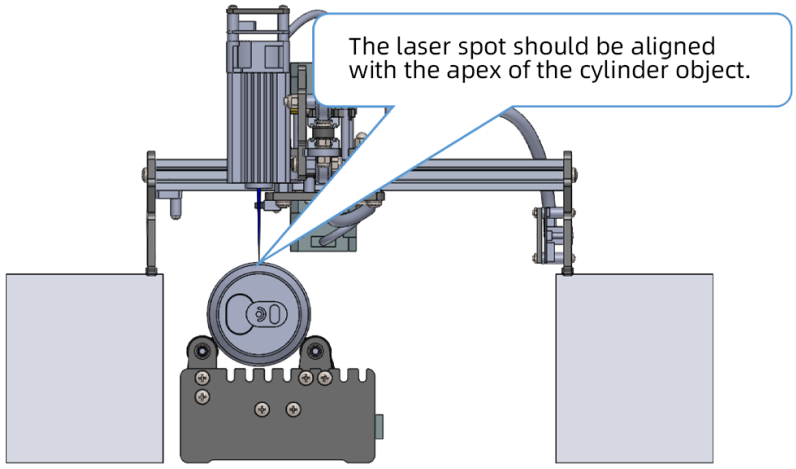
$20	Soft limits enable	1	boolean	Enables soft limits checks within machine travel and sets a...
$21	Hard limits enable	1	boolean	Enables hard limits. Immediately halts motion and throws an...
$22	Homing cycle enable	0	boolean	Enables homing cycle. Requires limit switches on all axes.
$23	Homing direction invert	7	mask	Homing searches for a switch in the positive direction. Set...
$24	Homing locate feed rate	600.000	mm/min	Feed rate to slowly engage limit switch to determine its lo...
$25	Homing search seek rate	3000.000	mm/min	Seek rate to quickly find the limit switch before the slowe...
$26	Homing switch debounce delay	100	milliseconds	Sets a short delay between phases of homing cycle to let a ...

5. Write the change to the main board.

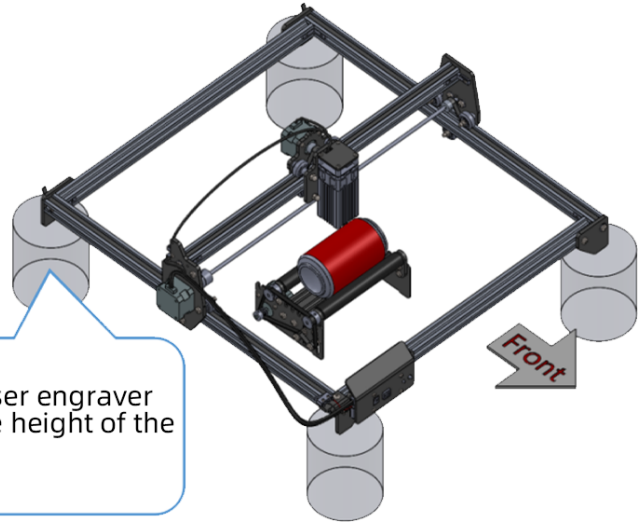
6. Close the window.

2. The installation method for marching with cantilever laser engraver.

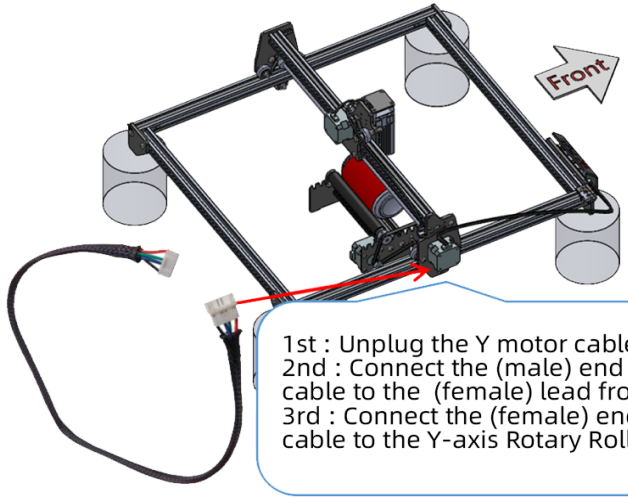




3. The installation method for marching with frame laser engraver.



Heighten the laser engraver according to the height of the object.



1st : Unplug the Y motor cable from Y motor.
2nd : Connect the (male) end of the extension cable to the (female) lead from Y motor cable.
3rd : Connect the (female) end of the extension cable to the Y-axis Rotary Roller motor.

The laser spot should be aligned with the apex of the cylinder object.