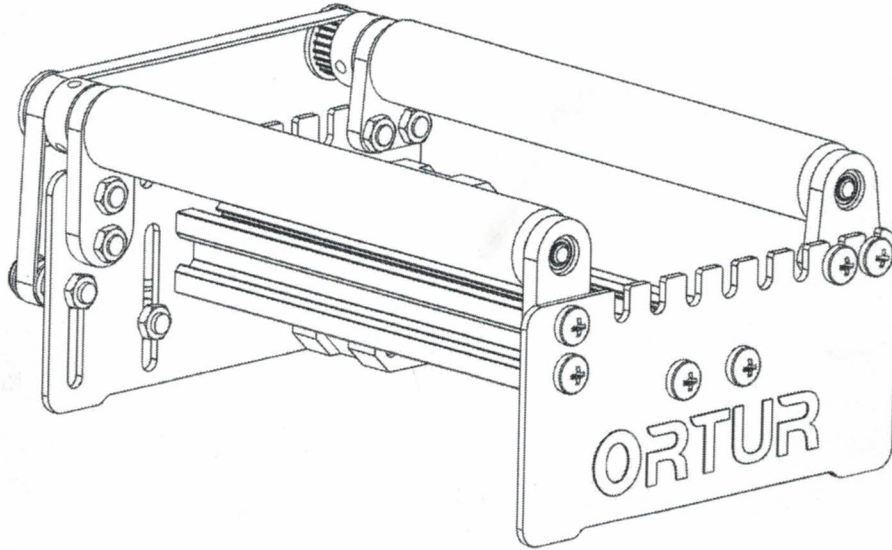


User Manual of Y Axis Rotary Roller



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Brief Introduction

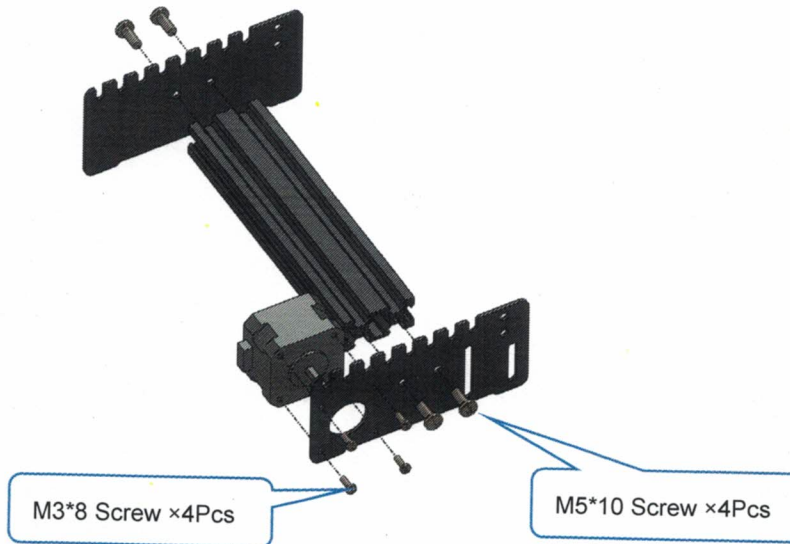
- This Y-axis Rotary Roller is used for laser engraving on cylindrical objects.
- This Y-axis Rotary Roller is an accessory part of Laser Engraver, cannot be used alone.

Attention

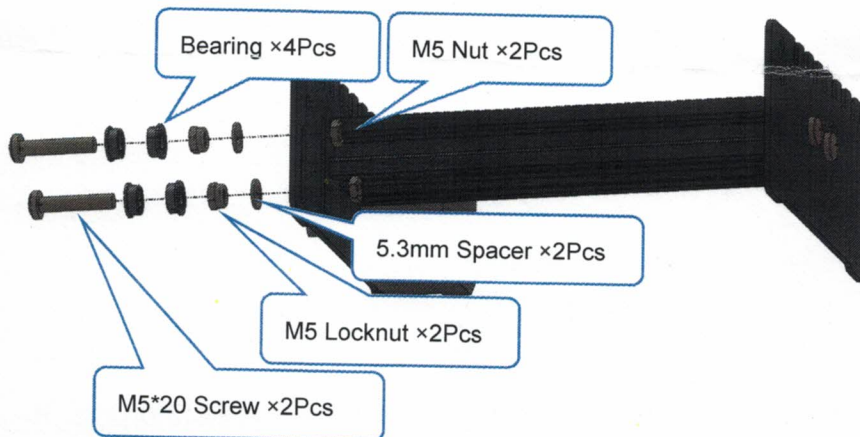
- This Y-axis Rotary Roller could be used with other brands of laser engraver, but it does not guarantee a perfect match.
- If user modifies the Y-axis Rotary Roller without permission, we would not be responsible.

Assembly Procedure

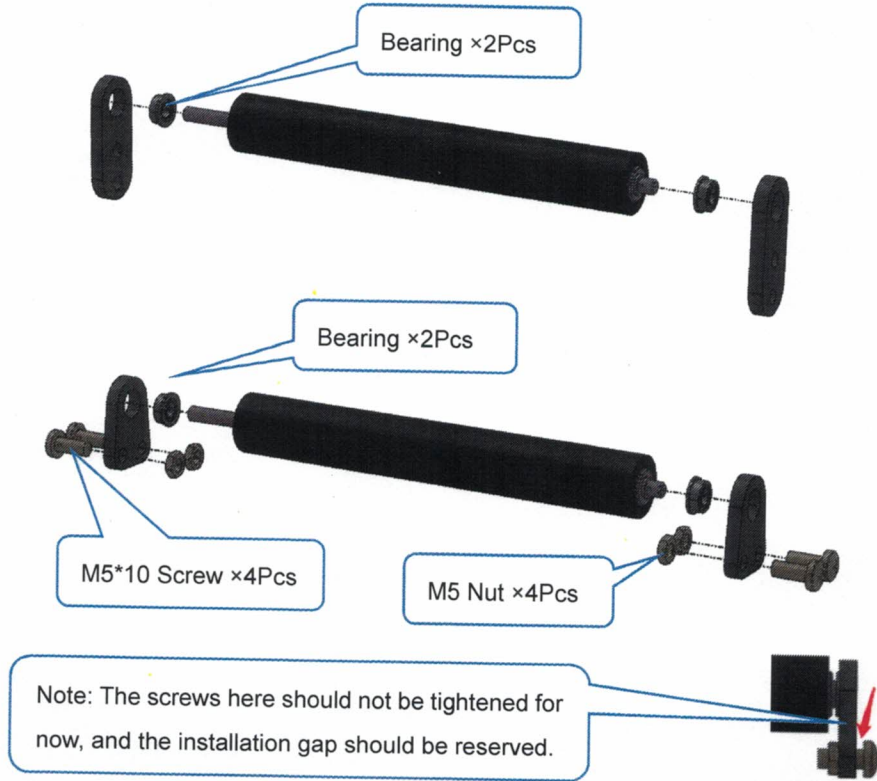
1. Assemble the Frame and Motor by 4 x M3*8 screws and 4 x M5*10 screws

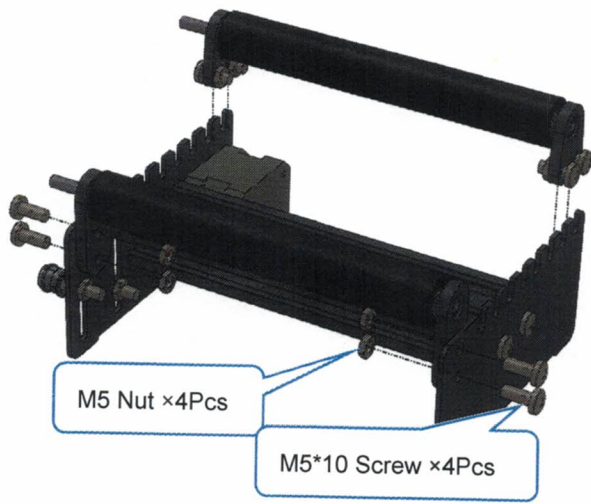


2. Assemble the Idle Pulley

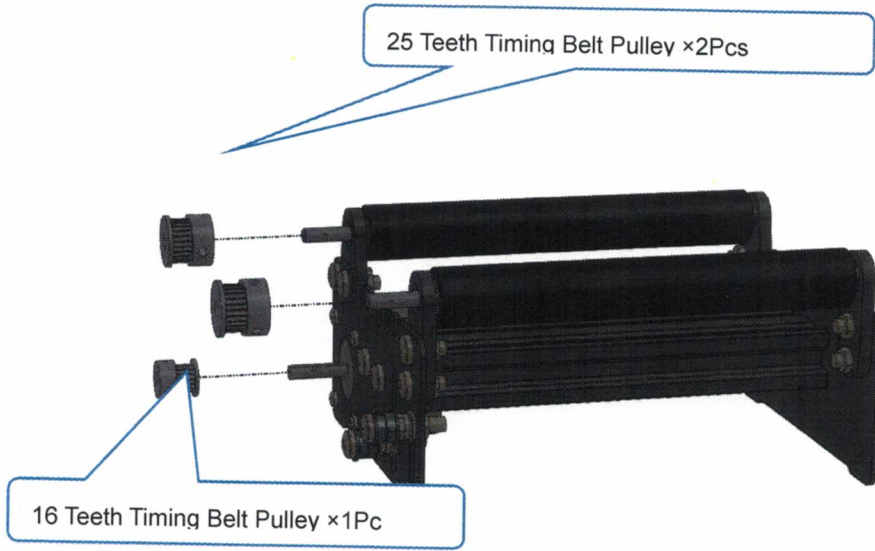


3. Assemble Roller

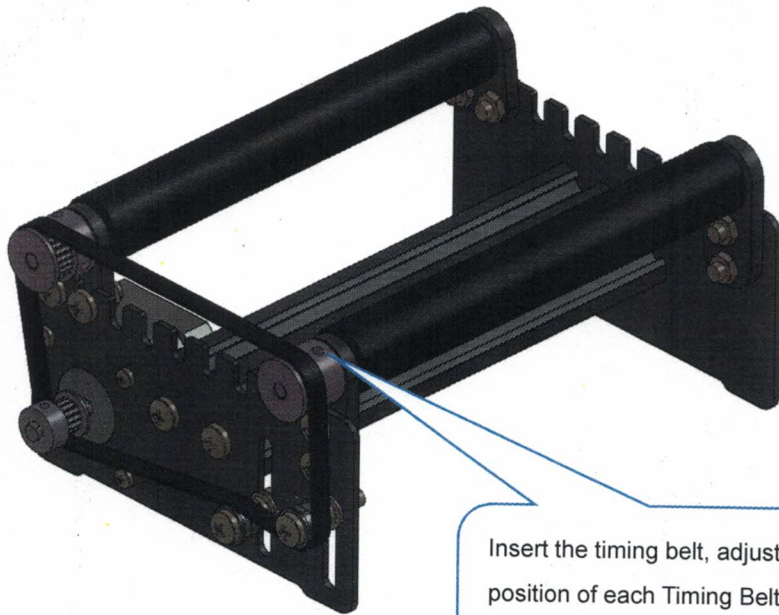




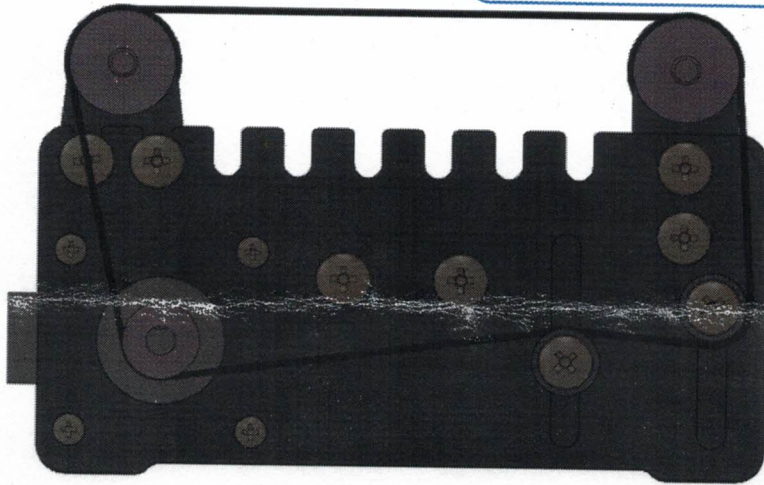
4. Assemble Timing Belt Pulleys.

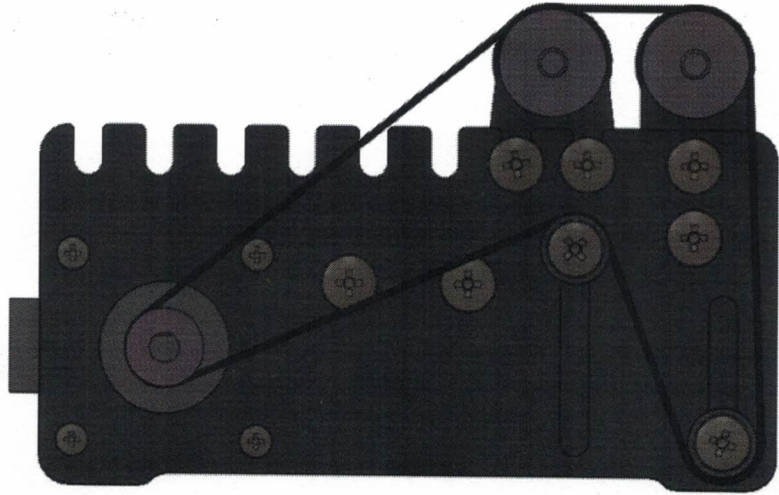


5. Last Step.



Insert the timing belt, adjust the position of each Timing Belt Pulley, and use the hex wrench to tighten the internal fixing screw

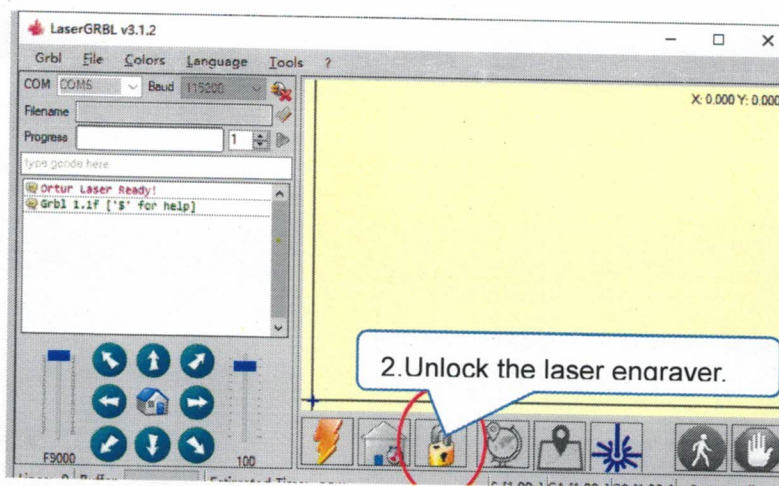
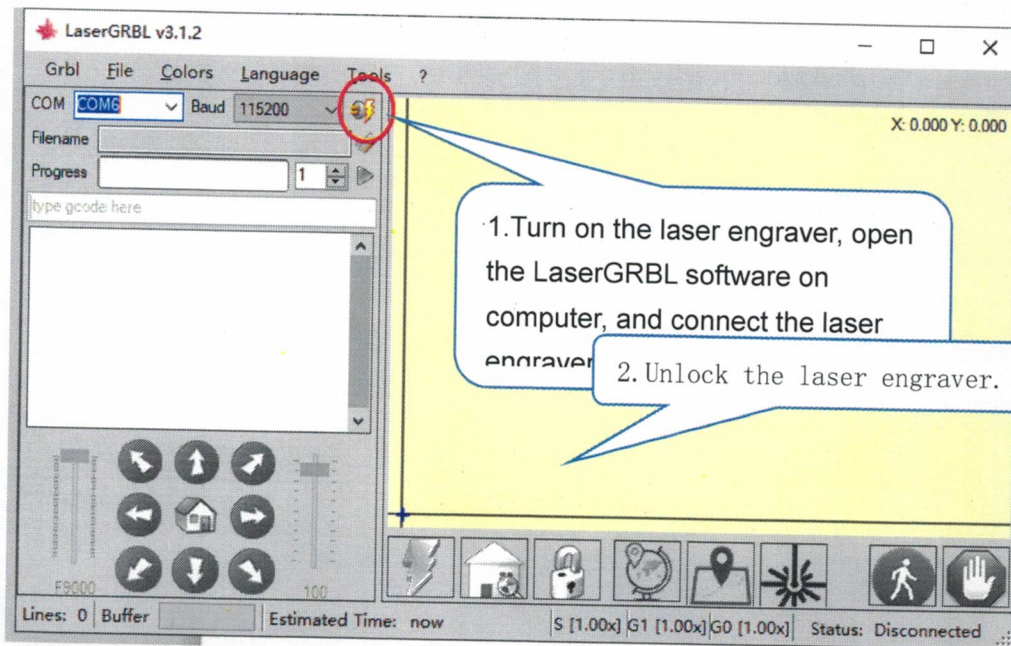


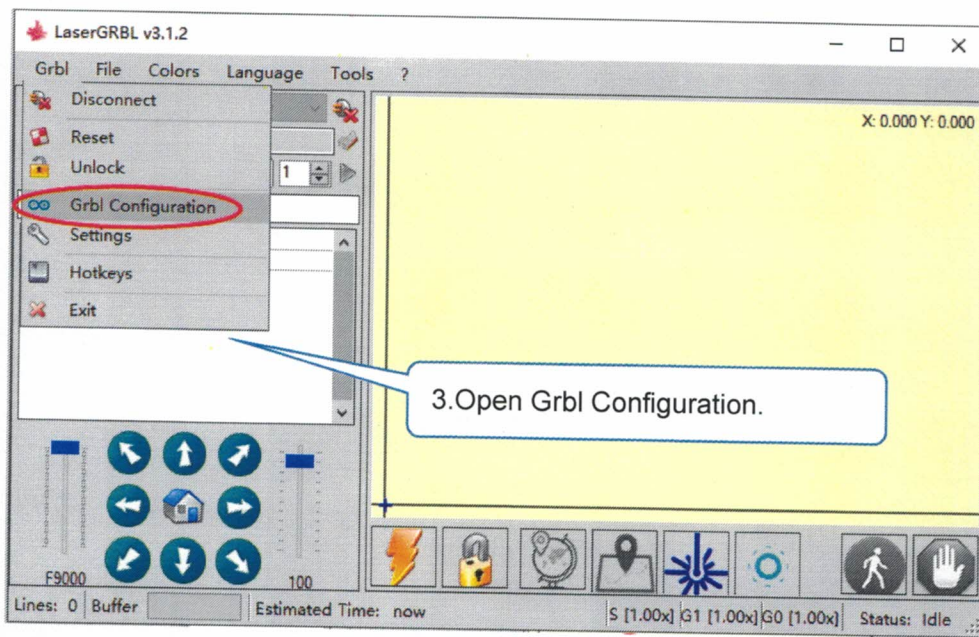


The distance between the two rollers can be adjusted according to actual needs

Setting Procedure

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





Grbl

Grbl ## configuration

#	Parameter	Value	Unit	Description
\$0	Step pulse time	20	microseconds	Sets time length per step. Minimum 3usec.
\$1	Step idle delay	50	milliseconds	Sets a short hold delay when stopping to ...
\$2	Step pulse invert	0	mask	Inverts the step signal. Set axis bit to ...
\$3	Step direction invert	0	mask	Inverts the direction signal. Set axis bi...
\$4	Invert step enable pin	0	boolean	Inverts the stepper driver enable pin sig...
\$5	Invert limit pins	0	boolean	Inverts the all of the limit input pins.
\$6	Invert probe pin	0	boolean	Inverts the probe input pin signal.
\$10	Status report options	1	mask	Alters data included in status reports.
\$11	Junction deviation			consec...
\$12	Arc tolerance			aracy b...
\$13	Report in inches			any pos...
\$20	Soft limits enable			machine...
\$21	Hard limits enable		boolean	Enables hard limits. Immediately halts mo...
\$22	Homing cycle enable		boolean	Enables homing cycle. Requires limit swit...

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

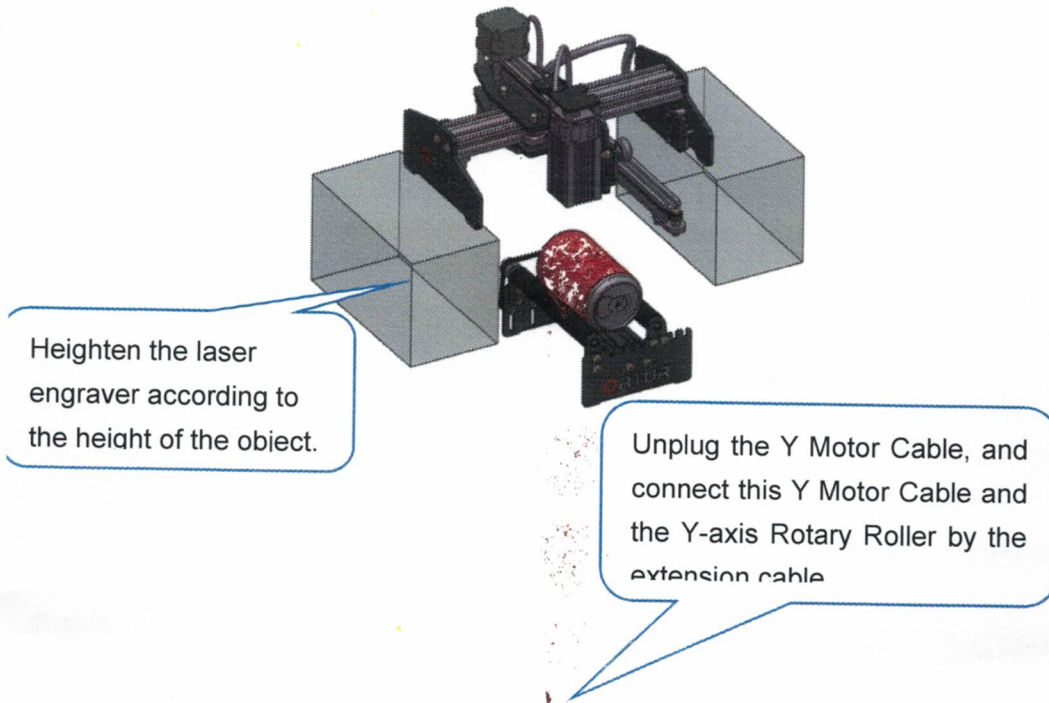
Refresh Write Export Import Close

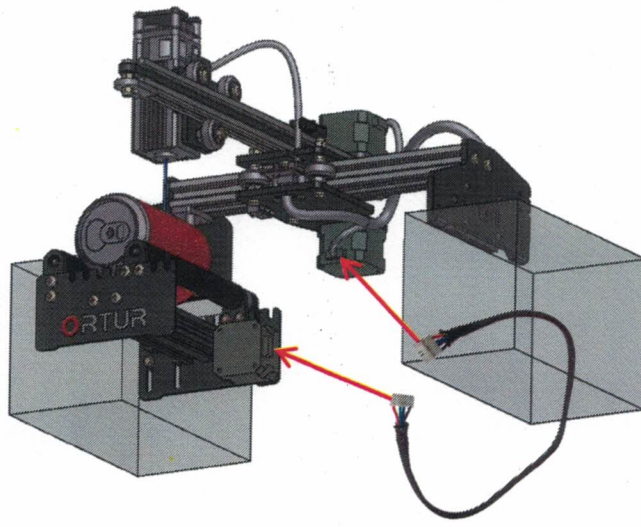
5. Write the change to the main board.

6. Close the window.

1. The installation method for marching with cantilever laser engraver :

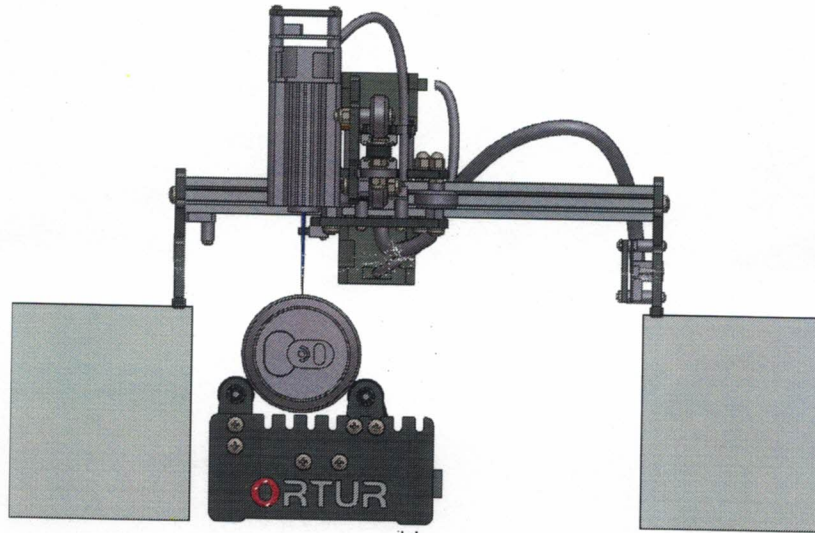
1.1. Place the subject as shown in the figure below, and connect with the laser engraver by a 500MM extension cable.





1.2. Adjust the position and laser focus, then start engraving.

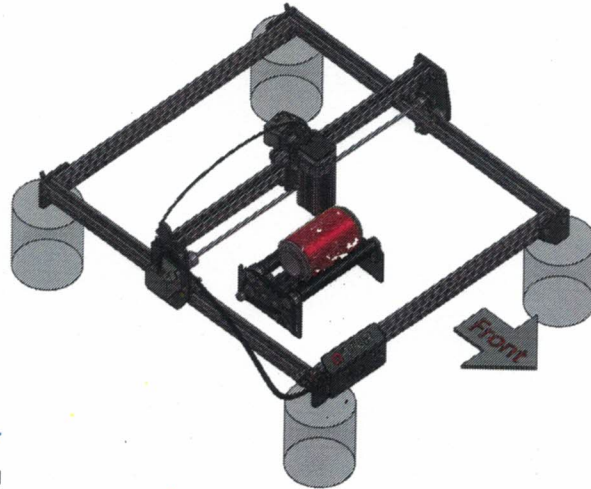
WARNING: Must wear eye protection (Laser goggles) before operating laser !!!



with

2. The installation method for marching with frame laser engraver :

2.1. Place the subject as shown in the figure below, and connect with the laser engraver



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



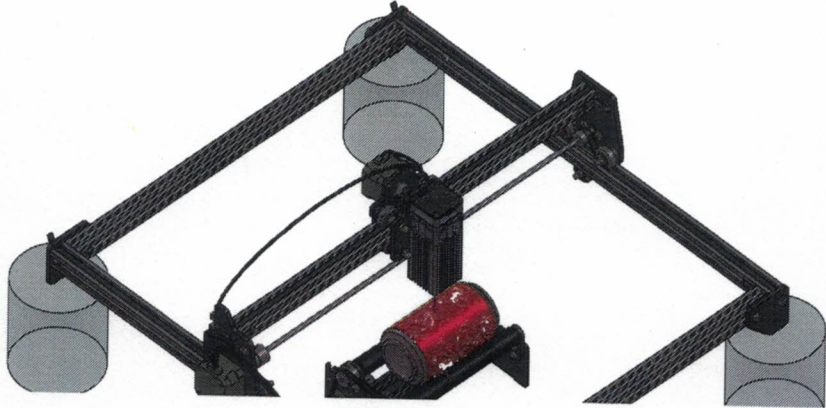
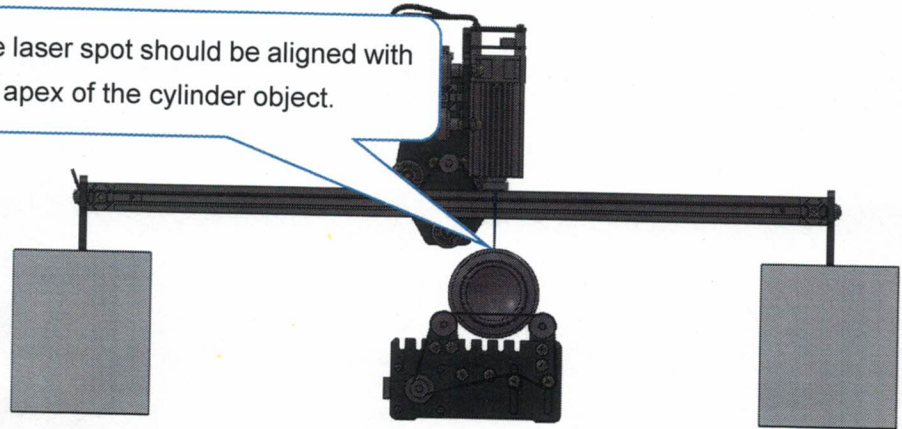


Unplug the Y Motor Cable, and connect this Y Motor Cable and the Y-axis Rotary Roller by the extension cable

2.2. Adjust the position and laser focus, then start engraving.

PS. DO wear eye protection (Laser goggles) before operating laser !!!

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



User Manual of YRR

The link to download the E-copy User Manual:

<https://www.dropbox.com/s/kfbzrtbag45s8wy/YRR.zip?dl=0>

The link to Assembly Video at youtube.com:

<https://youtu.be/XOG0AlwpBeA>

QR-code to scan and download:



After COVID-19, we decided to do something to protect our environment. The earth not only belongs to human beings, but also the animals, the plants, even the microorganism and virus.

So, we are using the dropbox to save the e-copy user manual instead of the printing user manual.

Save the Paper, Save the Earth, Save the Common Home of symbiotic creatures for the harmony of all things.

Any question, feel free to contact with us at: ortur@ortur3dprinter.com

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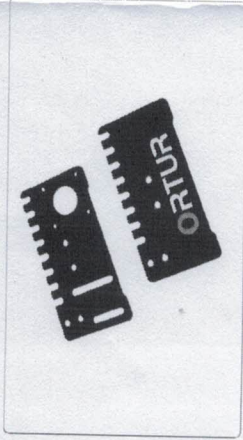
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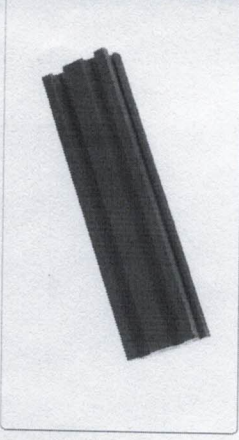
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Packing List of Ortur YRR Rotary Roller



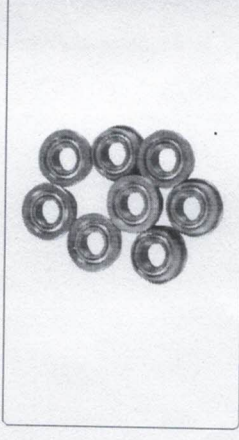
Gear Position Plate *2



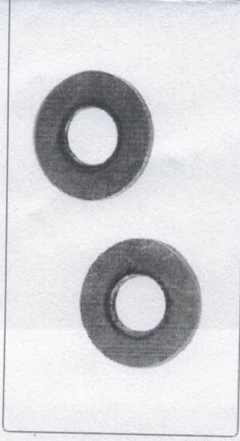
2040 Aluminum Profile *1



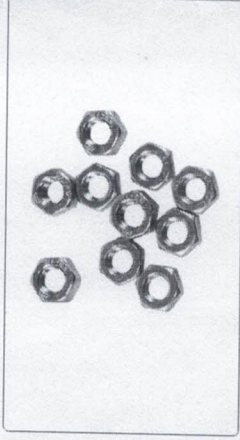
Timing Belt *1



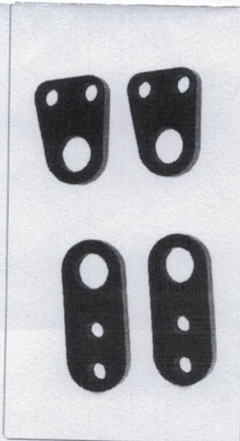
Bearing *8



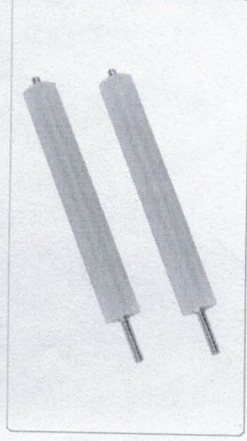
M5 Spacers *2



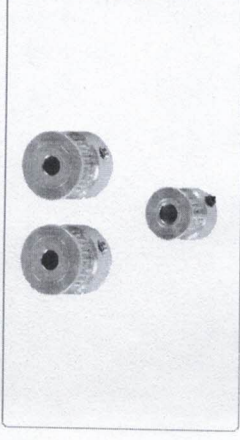
M5 Nuts *10



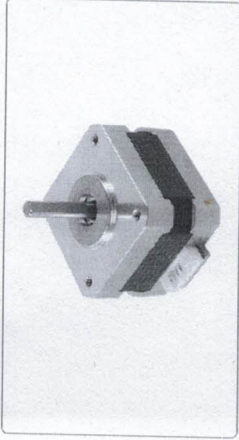
Fixed Roller Holder *2
Removable Roller Holder *2



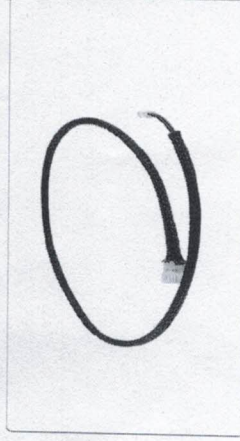
Roller *2



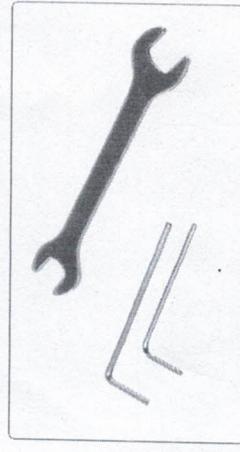
16 Tooth Timing Belt Pulley *1
25 Tooth Timing Belt Pulley *1



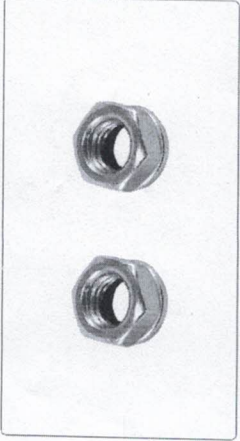
Nema 17 Stepper Motor *1



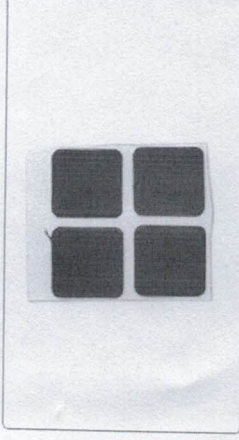
Motor Cable *1



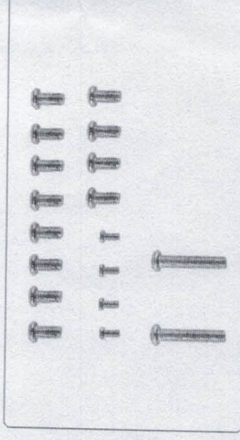
1.5mm Hex Wrench *1
2.0mm Hex Wrench *1
8-10 Wrench x1



Lock Nut *2



Non-slip Pads *4



M3x6 Screws *4
M5x12 Screws *12
M5x20 Screws *2