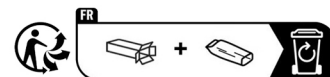


Assembly Manual v1.1
Z-AXIS LIFTING DEVICE

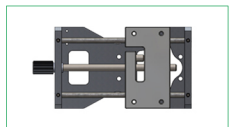


English

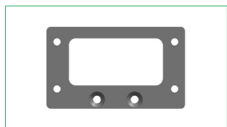
FDA CE FC   **RoHS** **MADE IN CHINA**

CONTENTS

Main Body

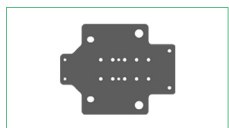


Sliding Plate ×1

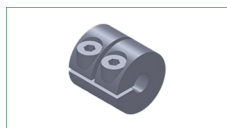


Fixing Plate ×1

Ortur Laser Master 2



Laser Backboard ×1



Coupling ×1



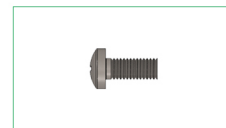
M3×7×11mm Pillar Washers ×2



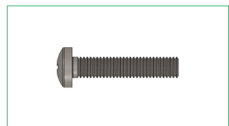
M3×20mm Self-tapping Screws ×4



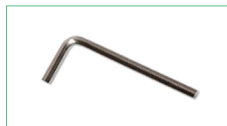
M3x6mm Flat Cup Screws ×2



M3x10mm Screws ×4



M3x20mm Screws ×2



2.5mm Allen Wrench ×1



Support Blocks 3mm ×2



Support Blocks 5mm ×1

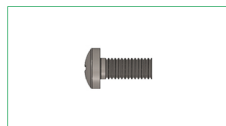
Ortur Laser Master 2 S2



Support Blocks 3mm ×2



Support Blocks 5mm ×1



M3x10mm Screws ×4



M3×20mm Self-tapping Screws ×4



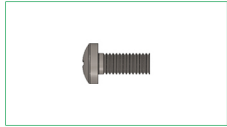
M3x6mm Flat Cup Screws ×2

Not all parts will be used, there are parts that are not needed for different models of machines.

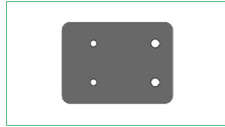
Ortur Laser Master 2 Pro



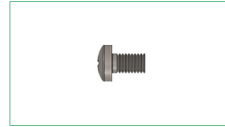
M3x6mm
Flat Cup Screws ×2



M3x10mm
Screws ×8

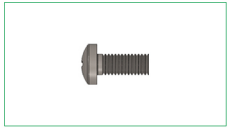


Y-axis
Extension Plate ×1

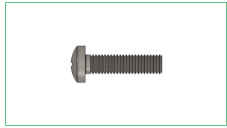


M2x4mm
Screws ×2

Aufero Laser 1



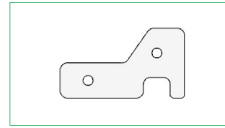
M3x10mm
Screws ×4



M3x16mm
Screws ×2

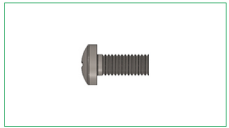


M3 T Nuts ×2



Limit Plate ×2

Aufero Laser 2



M3x10mm
Screws ×8



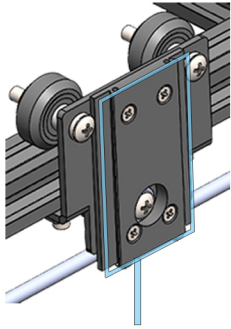
M3x6mm
Flat Cup Screws ×2

Not all parts will be used, there are parts that are not needed for different models of machines.

Ortur Laser Master 2 Pro

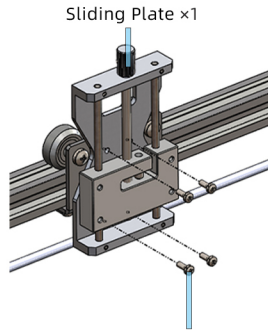
Assembly Steps (**NOTE:** The working area of the machine will be shortened to X400 x Y380 due to the addition of the Z-axis Lifting Device.)

1



Remove 4 screws, remove slide.

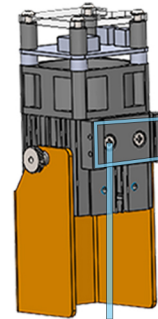
2



Sliding Plate x1

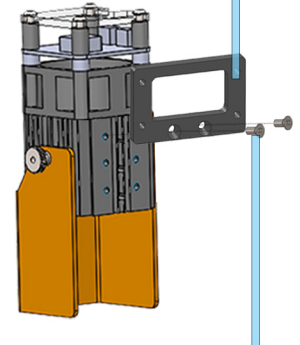
M3x10mm Screws x4

3



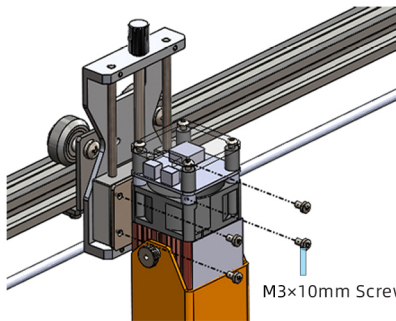
Remove 2 screws,
replace the fixing plate.

Fixing Platex1



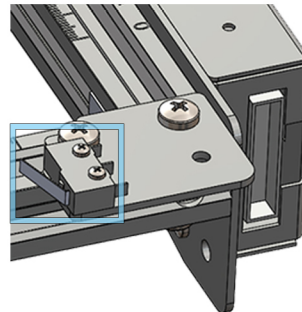
M3x6mm Flat Cup Screws x2

4

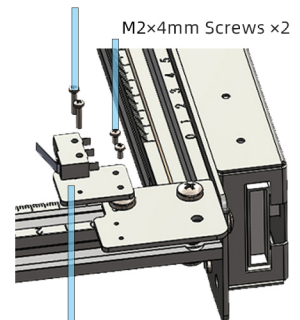


Install the laser module.

5



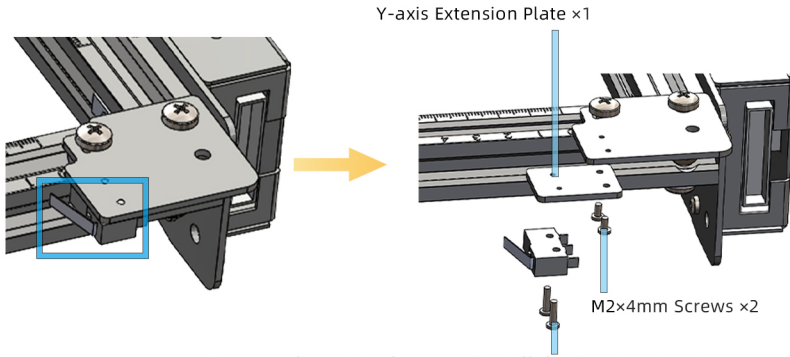
Remove the original screws, install the Y-axis extension plate, and then reinstall the removed screws.



M2x4mm Screws x2

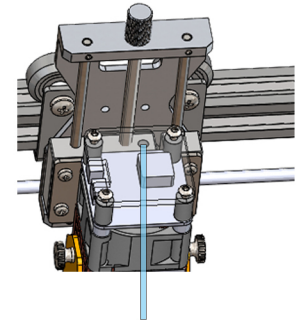
Y-axis Extension Plate x1

or



Remove the original screws, install the Y-axis extension plate, and then reinstall the removed screws.

6

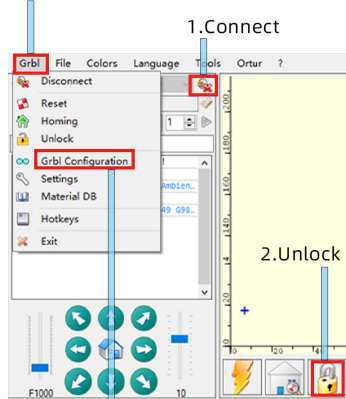


Adjust this screw to adjust the damping of the sliding plate. (Don't use force to lock)

7

When Z-axis Lifting Device assembled, the mismatch of increased weight and acceleration may affect movement accuracy. Then, you need to adjust the firmware parameters according to the following instructions.

3. Click "GRBL"



4. Click "GRBL Configuration"

#	Parameter	Value	Unit
\$111	Y-axis maximum rate	9000.000	mm/min
\$112	Z-axis maximum rate	1200.000	mm/min
\$120	X-axis acceleration	2200.000	mm/sec ²
\$121	Y-axis acceleration	1800.000	mm/sec ²
\$122	Z-axis acceleration	2200.000	mm/sec ²
\$130	X-axis maximum travel	210.000	millimeters
\$131	Y-axis maximum travel	210.000	millimeters
\$132	Z-axis maximum travel	50.000	millimeters

5. Recommended Parameters 1800 - 2000

#	Parameter	Value	Unit
\$262		250	
\$100	X-axis travel resolution	80.000	step
\$101	Y-axis travel resolution	80.000	step
\$102	Z-axis travel resolution	80.000	step
\$110	X-axis maximum rate	10200.000	mm/m
\$111	Y-axis maximum rate	10200.000	mm/m
\$112	Z-axis maximum rate	1200.000	mm/m
\$120	X-axis acceleration	2200.000	mm/s

6. Recommended Parameters 280