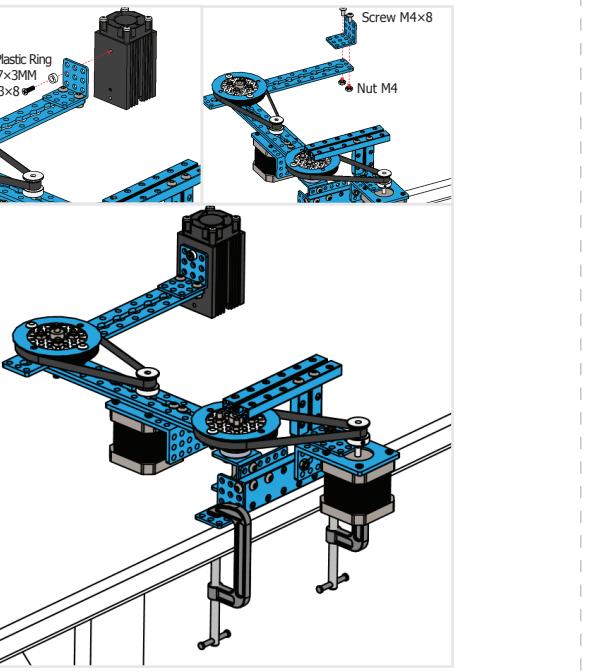
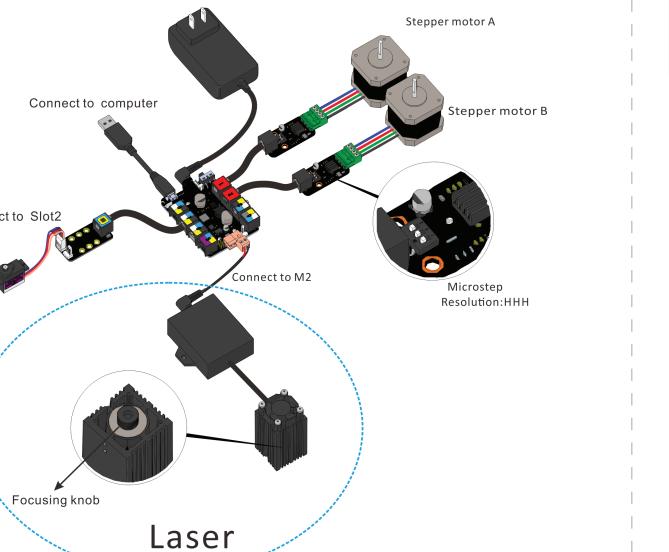


## 1 Assemble the Mechanics



## 2 Wire the Electronics



## 3 Wire the Electronics

Please go to <http://learn.makeblock.cc/mdrawbot/> to download detail instruction and software .

- 1.Detailed Operation
- 2.Software Download



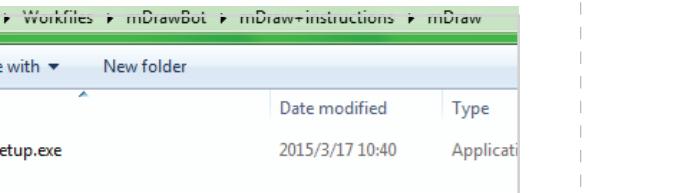
**WARNING:**  
Wavelength  $\lambda=405\text{nm}$  Blue-Violet Laser  
Class:IIIb  
Prohibit direct eye or skin contact with the laser beam.

### NOTE:

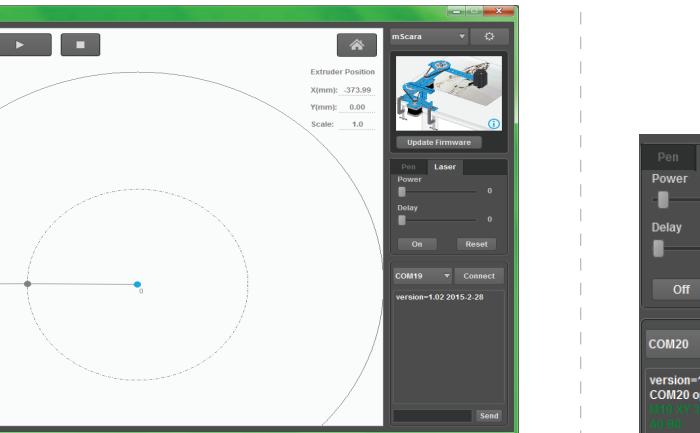
Working temperature: 0°C ~50°C  
Storage temperature: -40°C ~ 85°C

## 4 Install mDraw

- a. Find the mDraw installation package in the software directory and install it to your local disk.



- b. Connect the serial port.

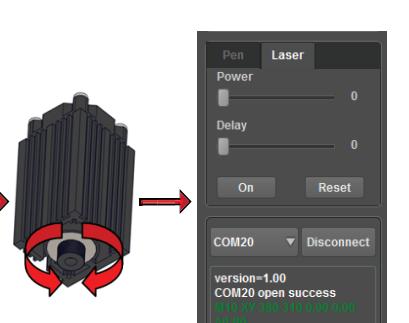
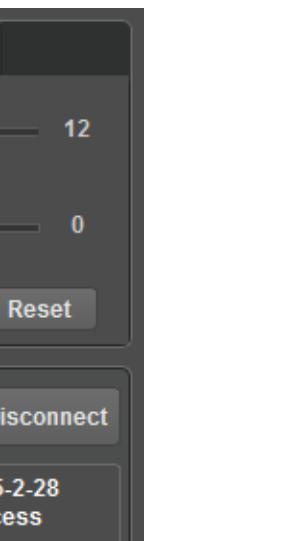


## 5 Upload Firmware

- a. Select **mScara** .
- b. Select the serial port you need.
- c. Click **Update Firmware** .

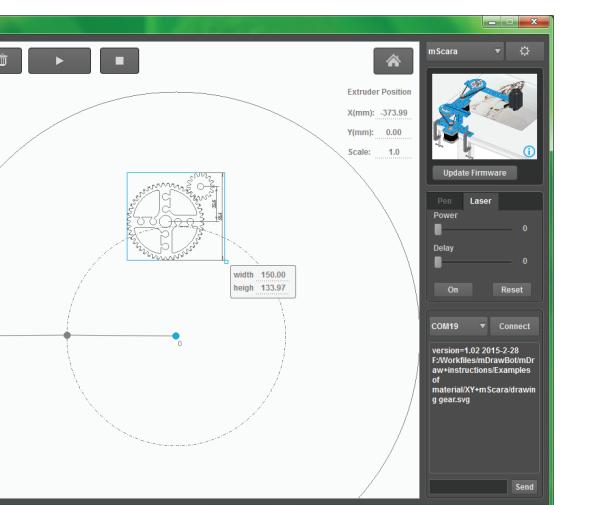
## 6 Adjust the Focus

- a. Put the colorful paper card or wood board under the laser head and wear the goggle. Keep adjusting the Focusing knob until you find the smallest light spot on the colorful paper card. Click "Off" button.

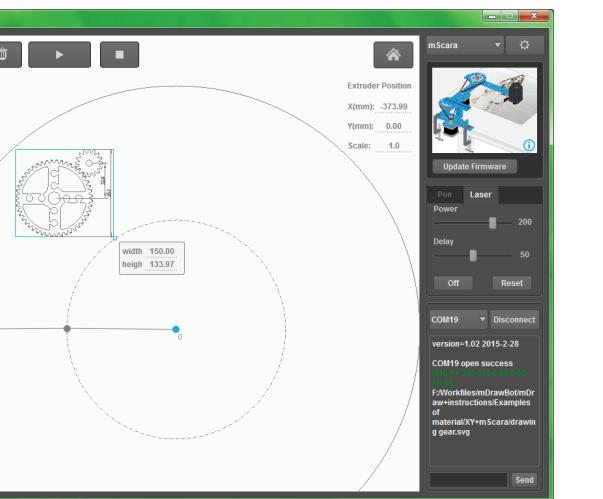


## 7 Engraving

- a. Click **File** ,open the drawing gear.svg under catalog Example of material.

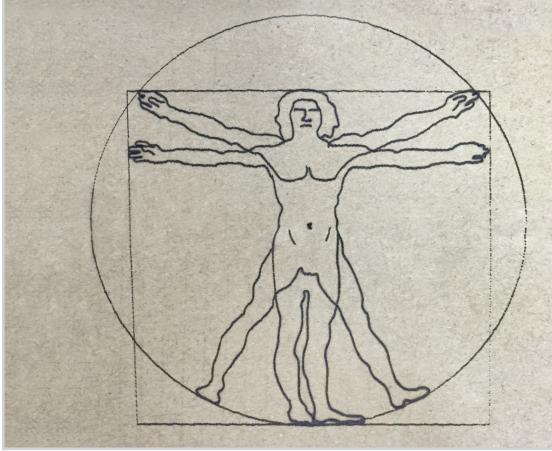
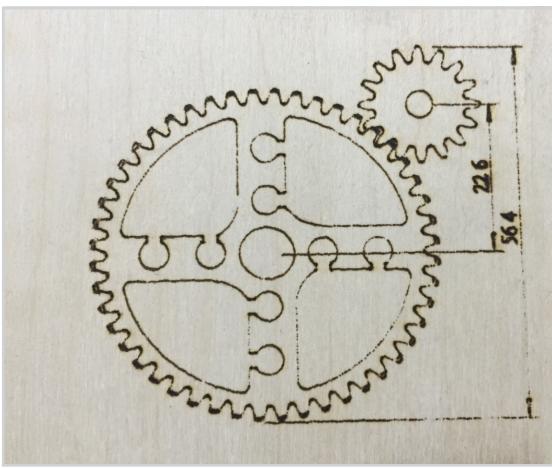


- b. Set up the config.



- c. Put the colorful paper card or wood board under laser head, click **Start** .

## 8 Engraved Samples



**Makeblock**  
Construct Your Dreams



# Laser Engraver Upgrade Pack QUICK START GUIDE



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