

Slider V4.0 BOM :

Standard parts :

- | | | |
|----|---|--|
| 1. | 20×16×700mm carbon fiber tube | ×2 (change the length according to need) |
| 2. | M8×10mm injection nut | ×4 |
| 3. | M6×8mm injection nut | ×4 |
| 4. | M3×5mm injection nut | ×4 |
| 5. | M3×8mm countersunk head screw | ×36 |
| 6. | M6×25mm hex bolt | ×4 |
| 7. | 8×16×5mm ball bearing | ×8 |
| 8. | Arri gear | ×4 |
| 9. | ø40mmu universal mats | ×4 |

Printing :

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|----|-----------------|----|
| 1. | SliderRodsMount | ×2 |
| 2. | MainPlatform | ×1 |
| 3. | Gear | ×4 |
| 4. | ScrewNorb | ×4 |
| 5. | UpperWasher | ×4 |
| 6. | BottomWasher | ×4 |
| 7. | RodsHolder | ×2 |

DIY Parts :

1. ø8mm×32mm Rod ×4 (one side with M3 screw hole)
2. ø20mm Black POM wheel with flange ×4 (recommended for lathe with DWG drawing)

Tool :

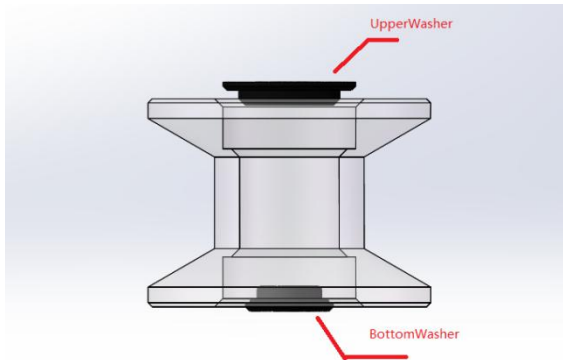
1. OverLord 3D printer
2. AB glue
3. Electric iron
4. Conventional hex screw driver

Step1 : Assemble the wheels

- Apply a few AB glue evenly to the inner of wheels, and insert 8 bearings to the both side of hole from it ;
- Insert the rod to wheels, and the holes side down。Tighten the print part BottomWasher with M3×8mm screw ;

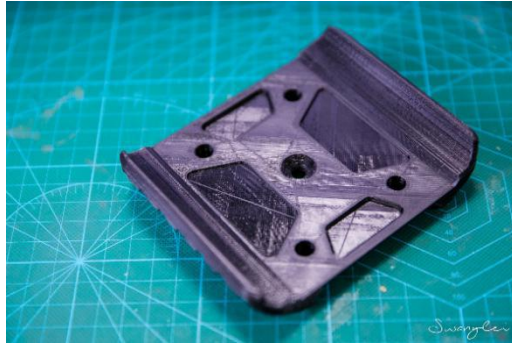
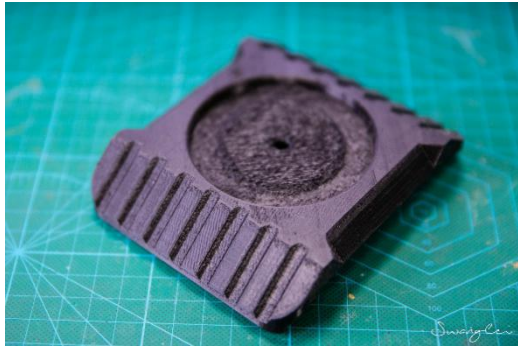


- Put on the print part UpperWasher to one end of convex rod, to limit the bearing;



Step2 : Assemble the mainplatform

- After assembling the four wheels , apply AB glue to the four 8mm holes on the bottom of print part MainPlatform ;

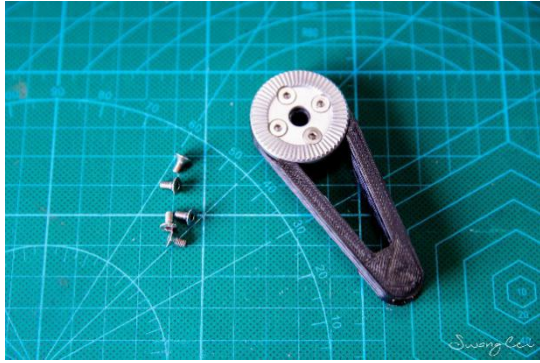


- Insert and press four wheels and align them to the same face ;



Step3 : Assemble gear

- Assemble the Arri gear to print part Gear with four M3×8mm countersunk head screws ;



- Use electric iron to heat injection nuts and then insert them to the bottom of gear (attention with the angle of nut as straight as possible)



- At the end , screw the universal mats to nut ; (this universal mat was the smallest I could buy, maybe I will design one part instead of it cause I don't like it too)



- Apply AB glue to the M6×25mm bolt head and print part ScrewNorb, and it's better to press them with some tool ;



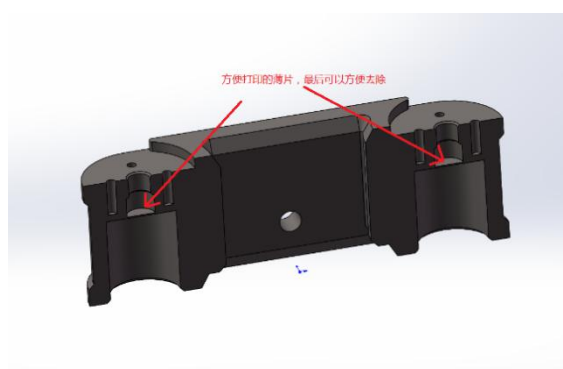
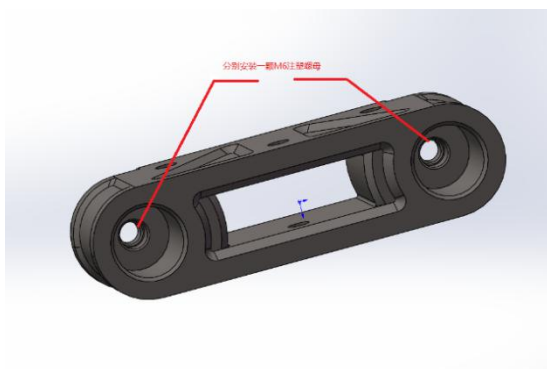
Step4 : Assemble the SliderRodsMount

- Assemble print part SliderRodsMount with four Arri gears from M3×8mm countersunk head screw ;



- There are two step hole in SliderRodsMount, use electric iron to heat and insert them ; (try to make it straight, if not ,reheat the injection nut)

Attention : I covered the hole inside the part first with thin slice, that is for the print bridge, so you can easily use knife to open it after print.



- Use the electric iron to heat M3×5mm and insert them to the hole upon part as the same ;



- After assemble the whole part, apply AB glue to the 20mm hole and then insert the rods to it. (leave the other side first)

Step5 : Final assemble

- Before assemble another SliderRodsMount, roll the platform assembled before, apply AB glue to second SliderRodsMount ; (press the whole Slider to a flat table, to make sure all the rodsmount is on same face)



- After ten minutes, the AB glue will dry fast, so you can assemble the gears, insert four handnorb on injection nuts to tighten gears ;



- Use AB glue to glue the print part RodsHolder, to strengthen the carbon fiber rods, it's better to leave 120mm offset between SliderRodsMount and RodsHolder ; (you can change location according to the length of rods)



Finished works





