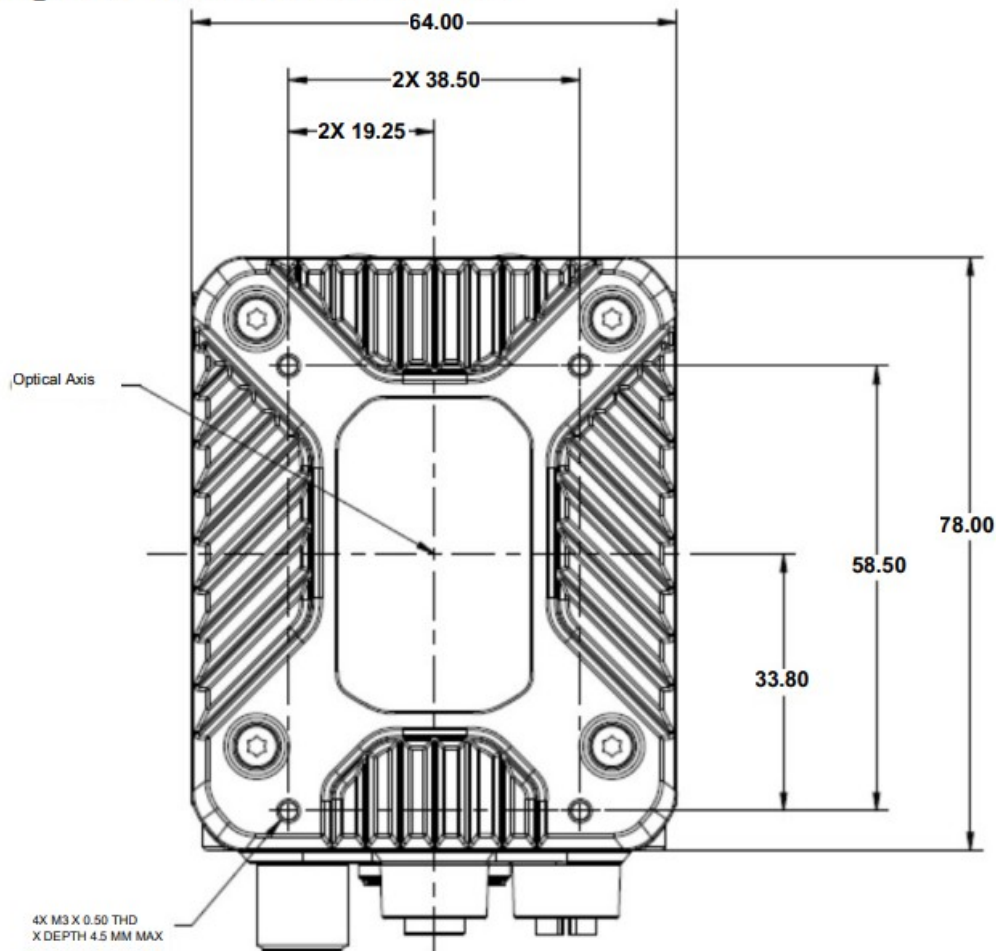


# Multi Camera mount (3 cameras 1 Clamp)

## Back Side camera bracket

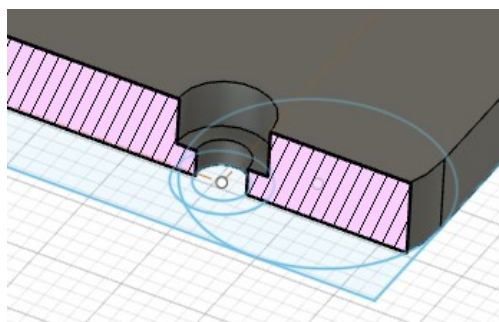
**Figure 2** xS40 Bottom Dimensions



## Mounting screws

4X M3 X 0.50 THD  
X DEPTH 4.5 MM MAX

I set the base thickness to 5 mm, but I hide the screw head under the surface so I can use M3 x 6 mm. The anchor thickness is now 1.8 mm



## **Multi Camera mount 4.0 (3 cameras 1 Clamp)**

TBD

# Multi Camera mount 3.0 (3 cameras 1 Clamp)

Improvements:

- Rounded mounting plates improvements (8 mm radius instead of 10)
- Quick disconnect fastener / screw that can be operated without tools
- Embossed screws head for the camera plate.

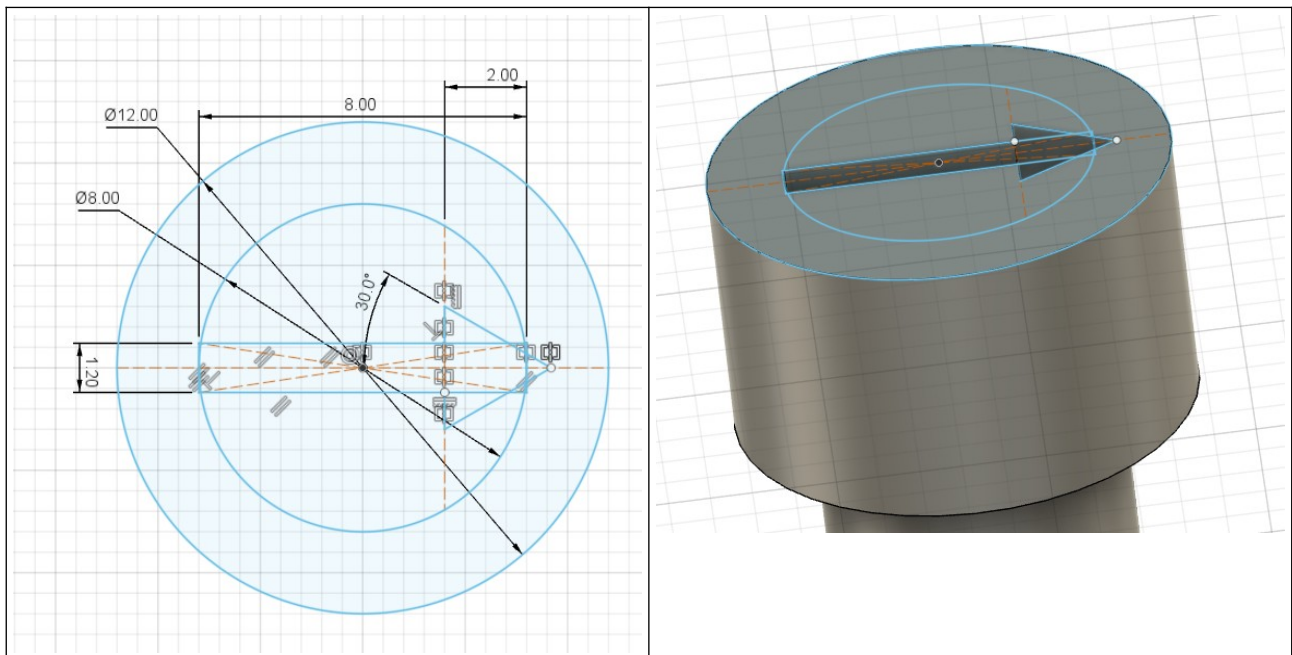
## Mounting Screw

### Screw Head

Head Size: 12 mm diameter

Head Height: 7 mm to maximize the usability with bare hands

The arrow is oriented as the locking pin



### Screw barrel

8 mm diameter

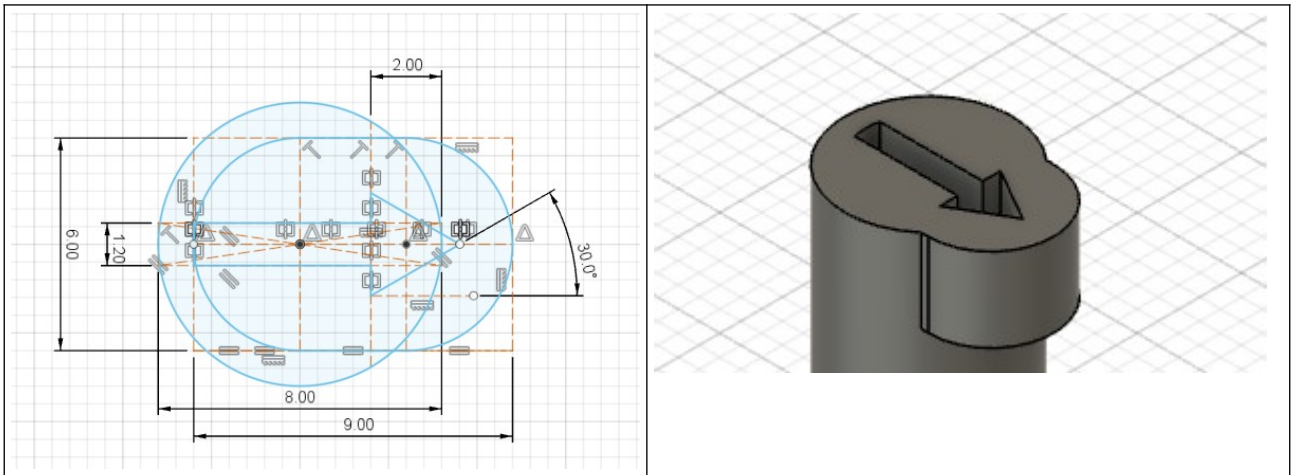
21 mm high

### Screw locking pin

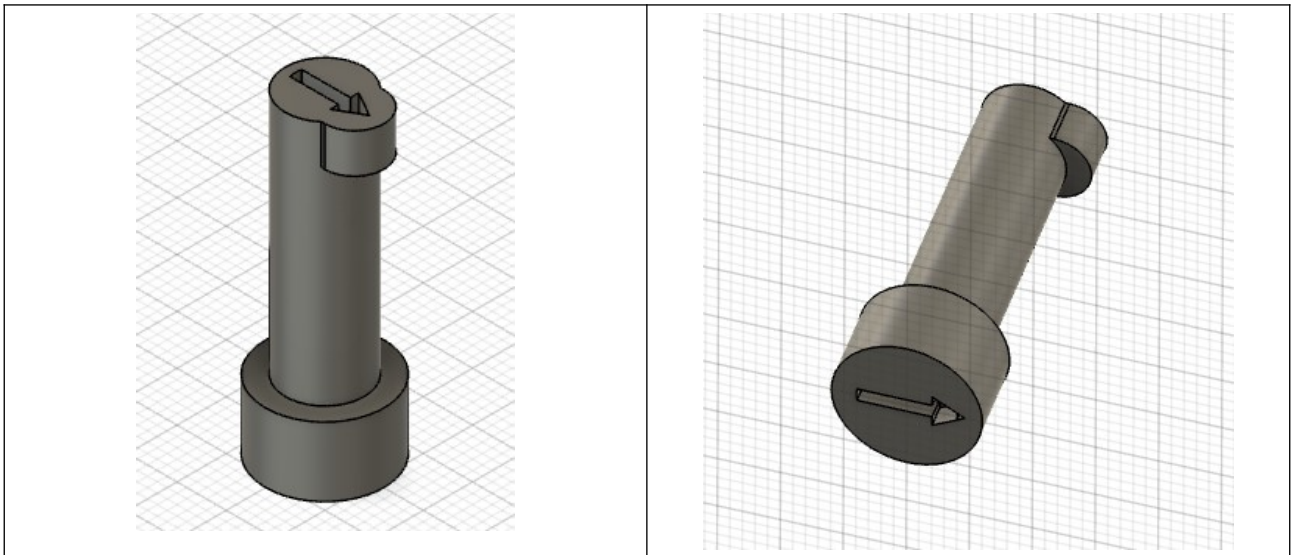
The end of the screw is used to lock the screw in place

It is just 2 mm bigger than the barrel

The arrow is aligned to the one on the screw head.

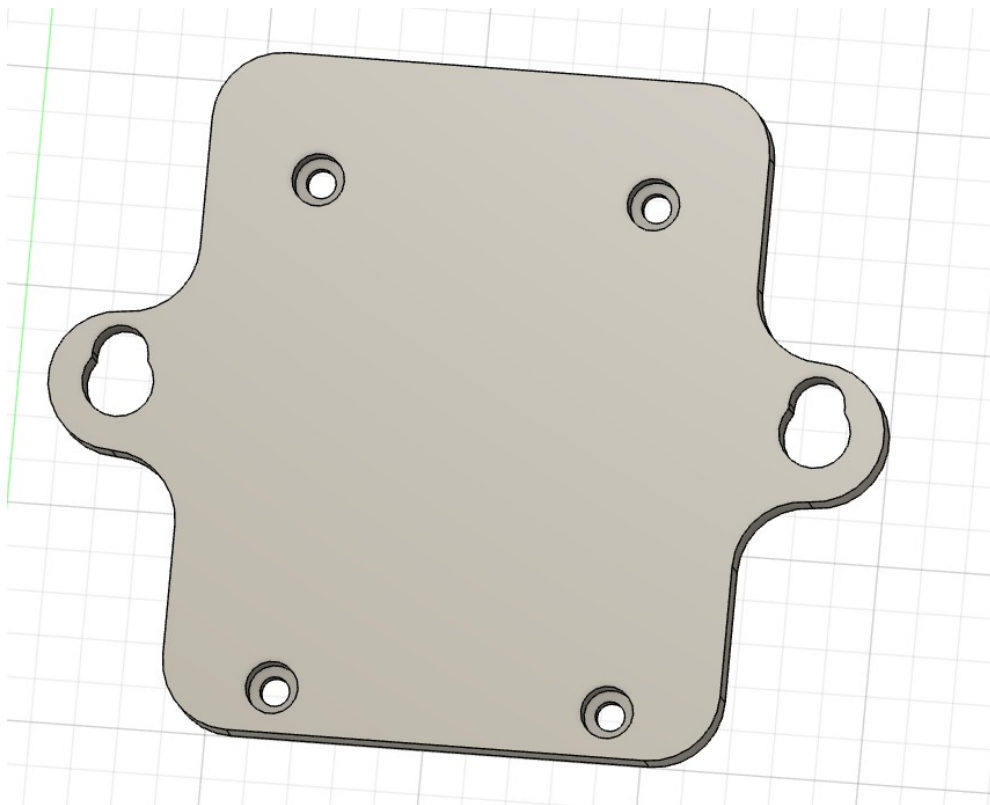
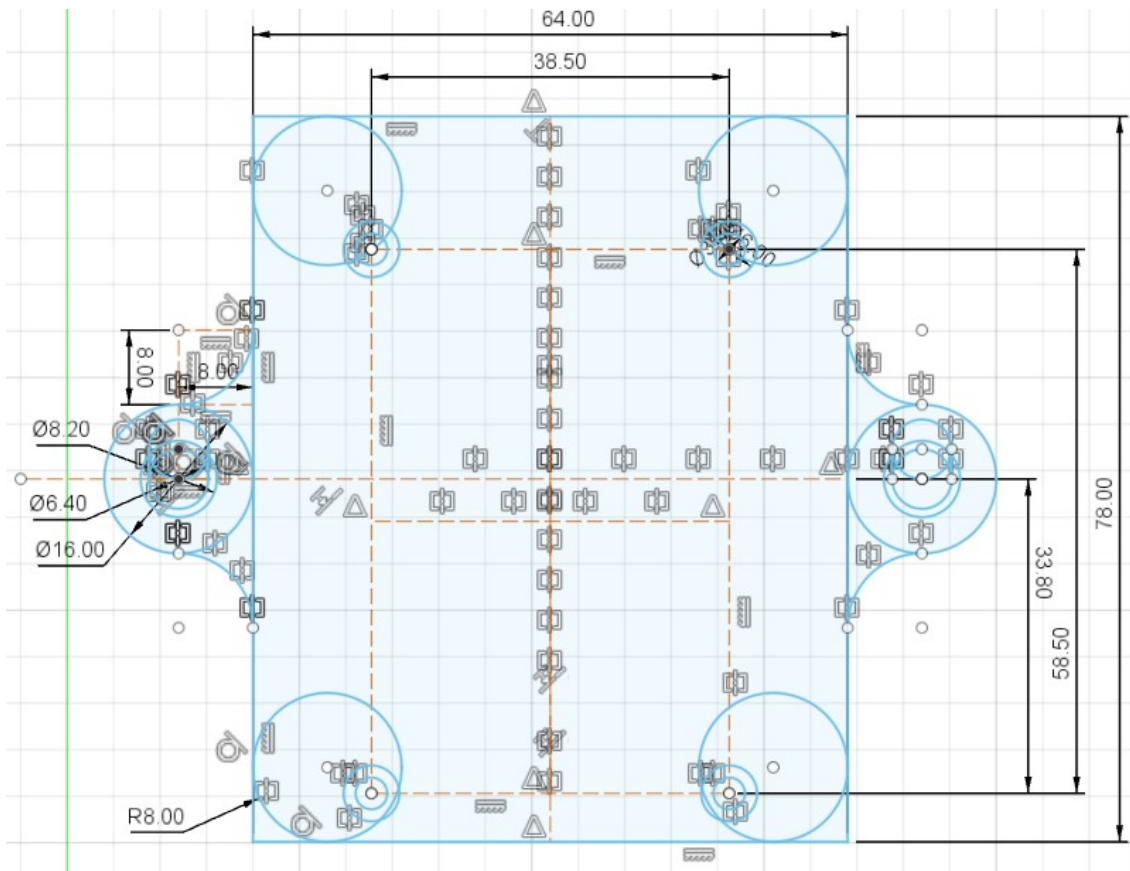


### Screw final view



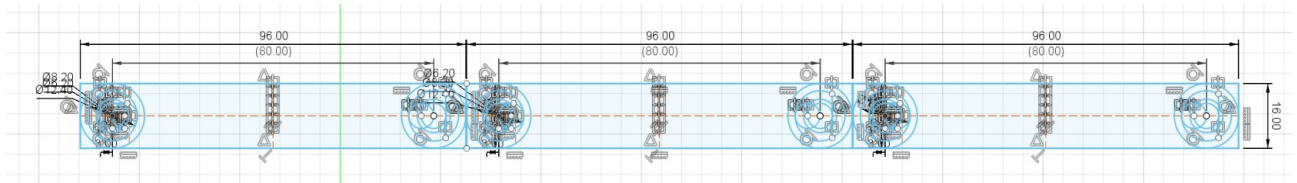
## Camera Plate

The camera plate now includes a slot for the screw

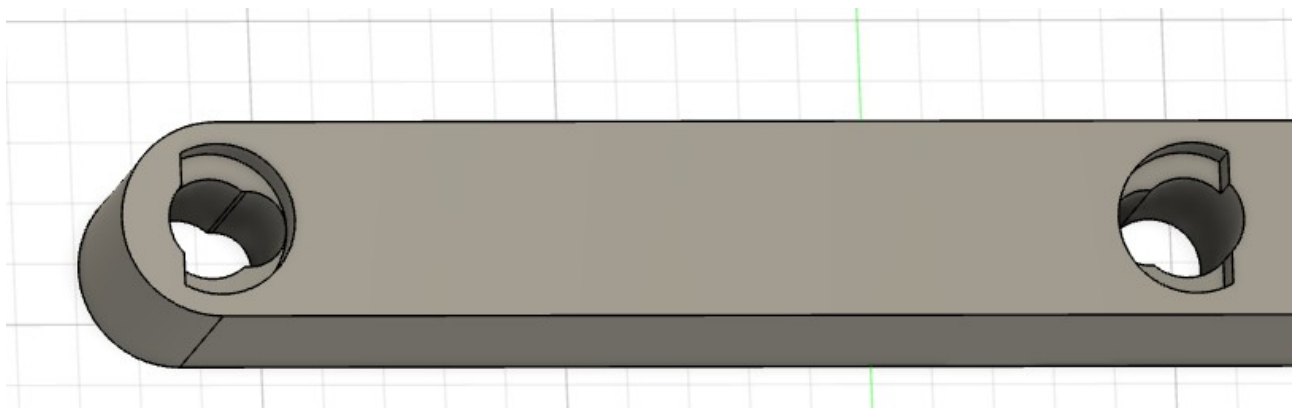
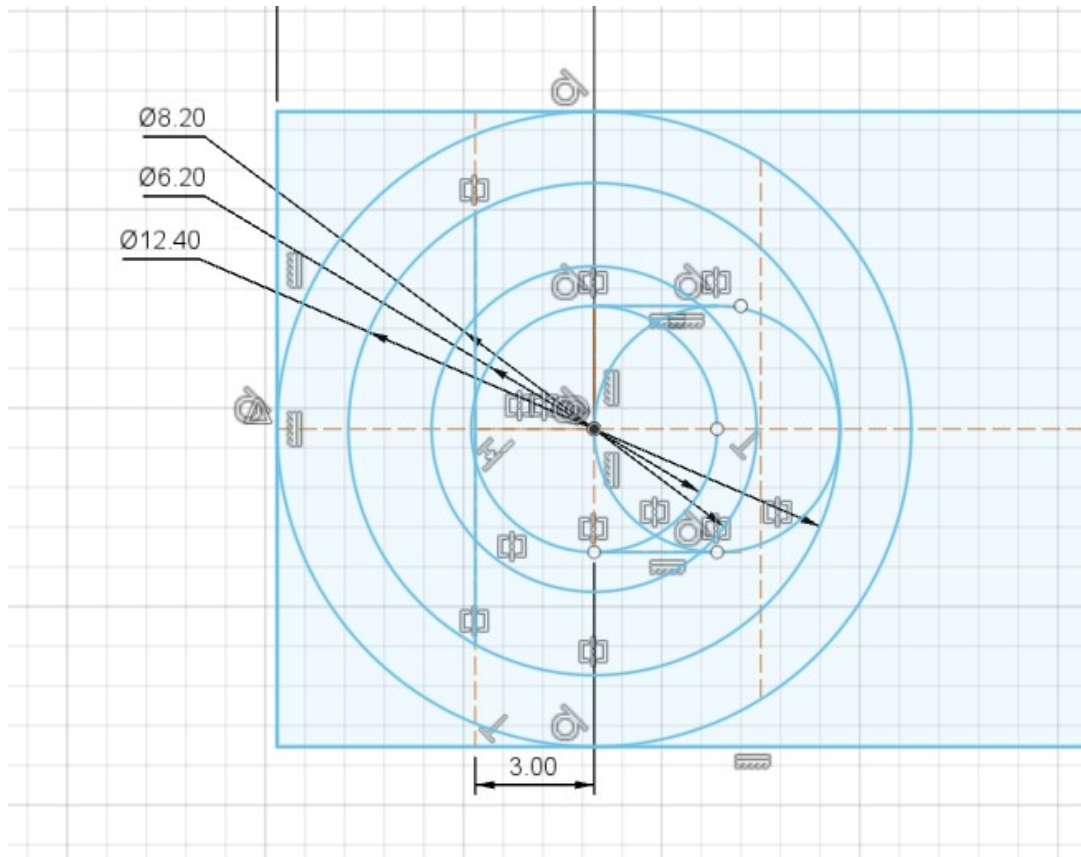


## Support Beam

The beam now has a top and bottom since in one side we need the receptacle for the screw pin.

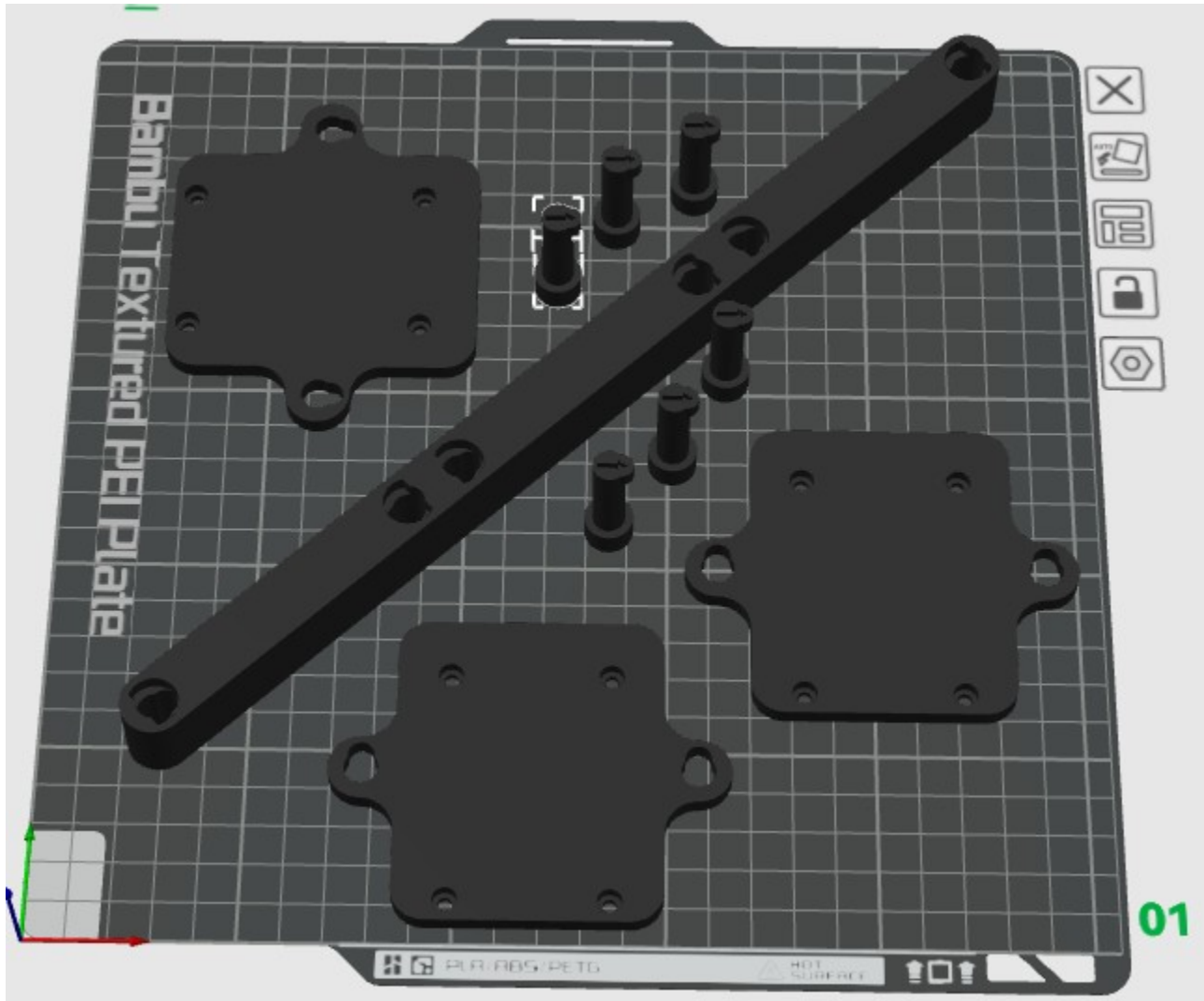


The receptacle is formed by an 8.20 mm and one 6.20 mm circle. A stop line in the back is used to limit the rotation to  $\pm 90^\circ$ . Left and right receptacles are symmetric.



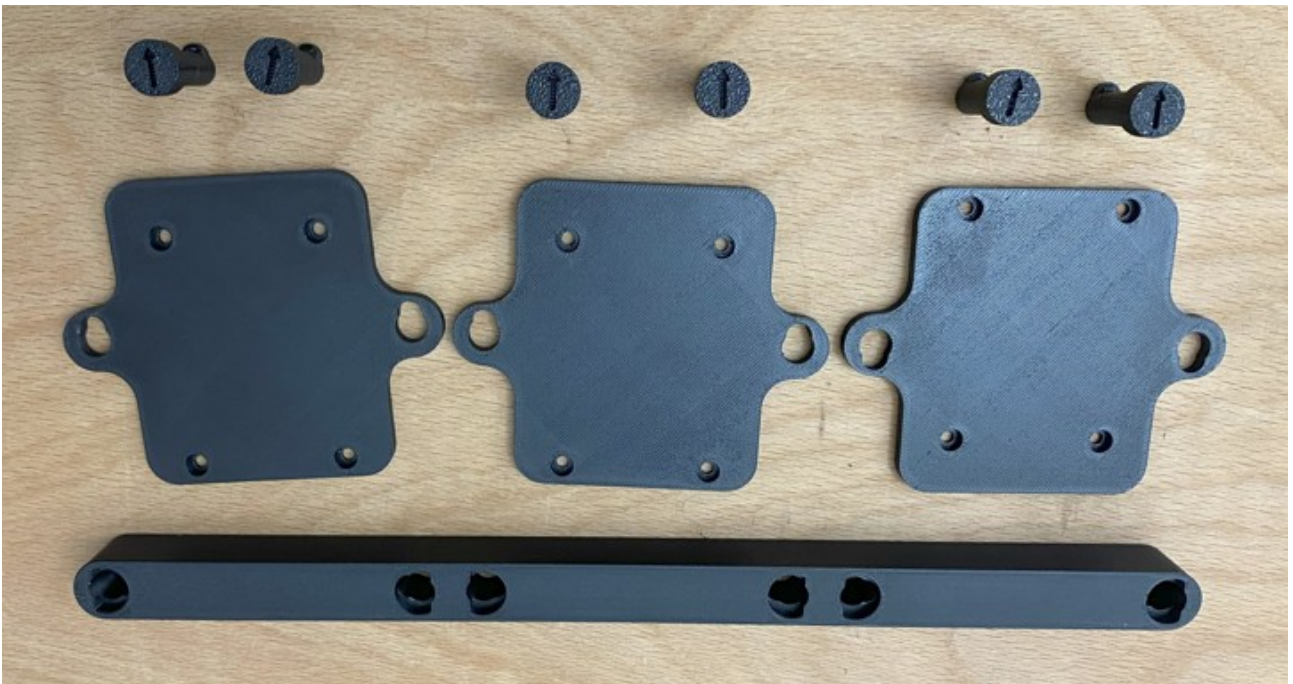
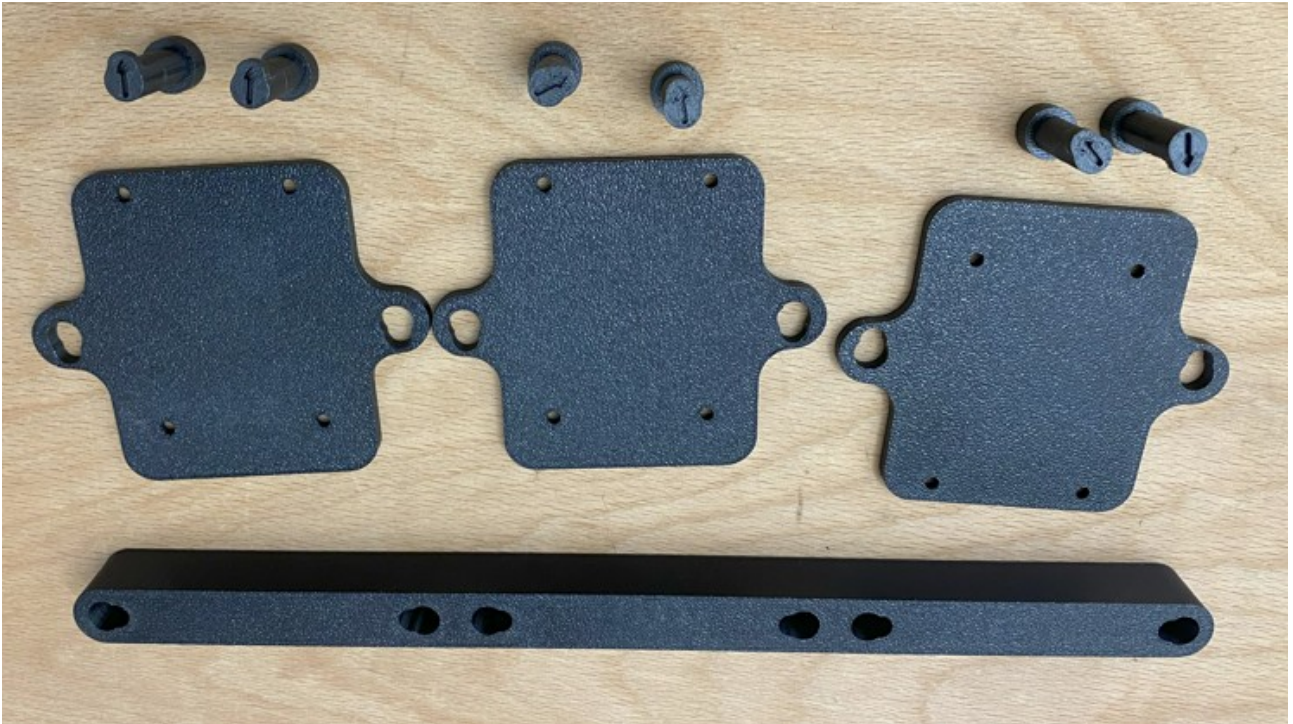


## Printing Layout



## Final Result 3.0

This is the resulting kit





Camera mounting plate and its screws



Now the rounded corners are perfect!

## Possible improvements

- Add a text message to the camera screw side, since it is not simple to understand the screws has a hiding hole so the head is not emerging from the camera plate back, like a countersunk screw.
- Add 0.5 mm to the screw and mount it using a O-Ring. This should ensure a better fixing against vibrations.

8 x 1.5 O-Ring should be perfect



### Knpper Anelli di tenuta Guarnizioni O-Ring Set Assortimento (1200)

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#### Informazioni su questo articolo

- Materiale premium Realizzato in gomma nitrilica commerciale di alta qualità (NBR), eccellente stenza all'acqua e all'olio, eccellente stenza al calore, buona sigillabilità, resistenza alla corrosione, resistenza all'usura e antistatica. Durevole e di lunga . Eccellenti prestazioni resistenti al calore: da -40 °C a 120 °C. Buona elasticità.

# Multi Camera mount 2.0 (3 cameras 1 Clamp)

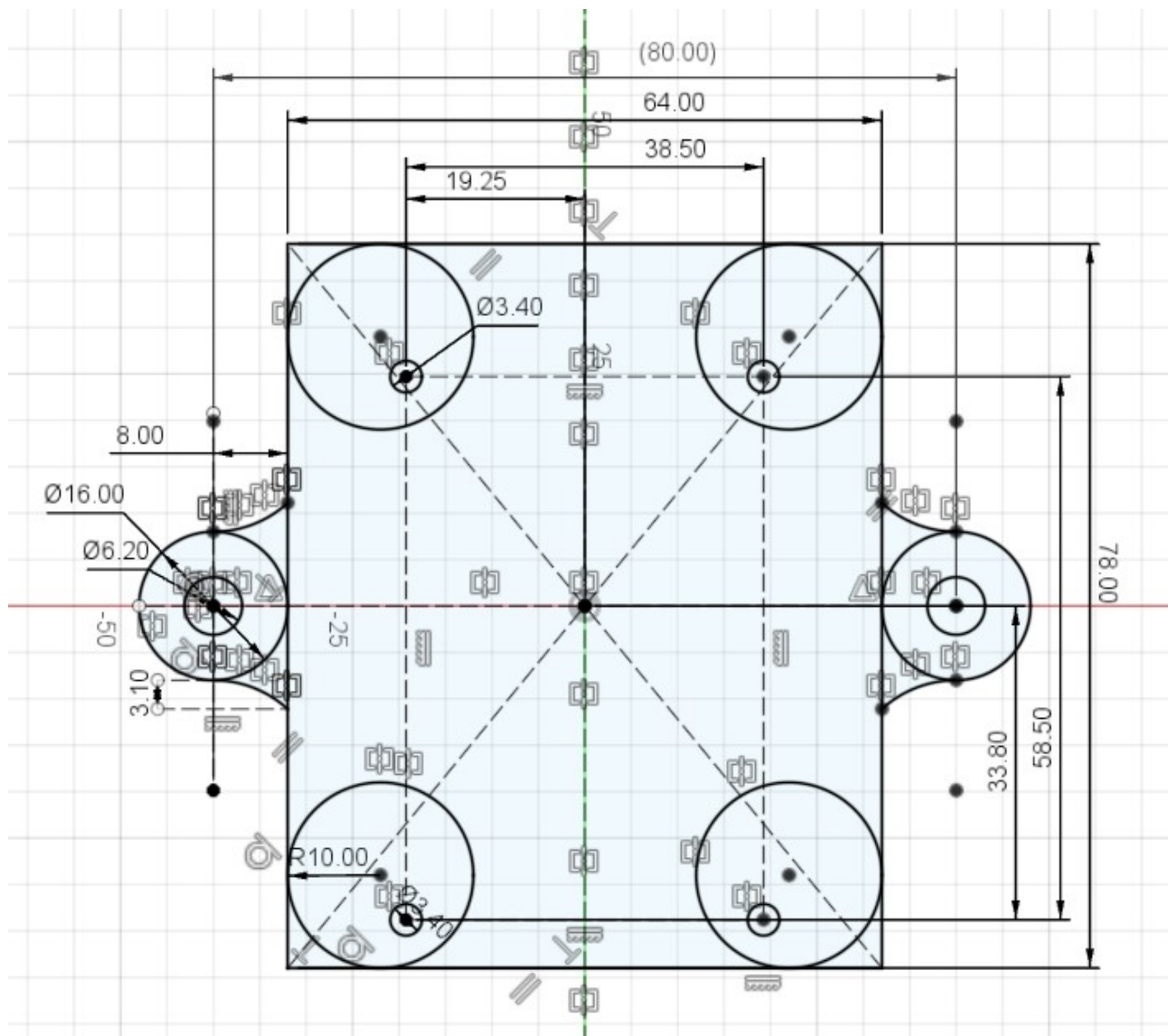
Improvements:

- Better alignment of the beam and the mounting plate
- Rounded mounting plates (10 mm radius)

## Camera Plate

I add 4 R10 circles to round the plate and make it smooth

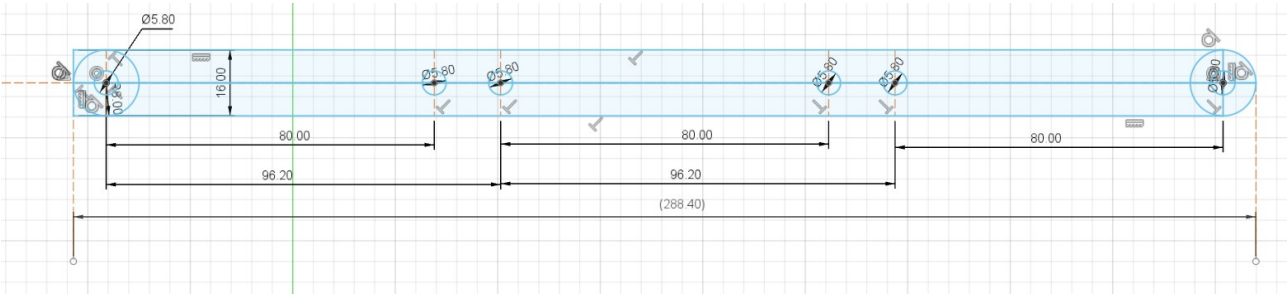
Changed the side mounting holes with a 16 mm rounded flange to better adapt to the beam



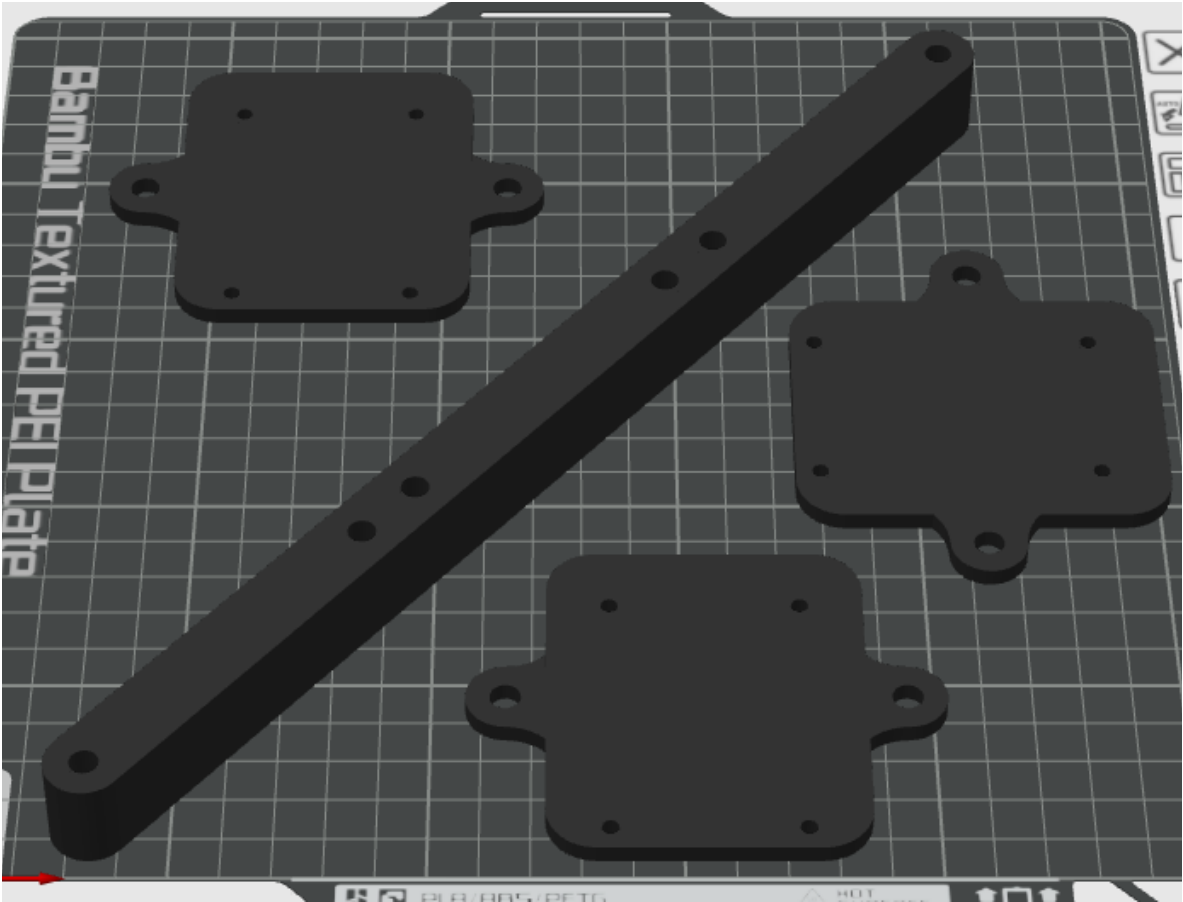
# Support Beam

Total length: 288,40 mm

Camera distance: 96,20 mm

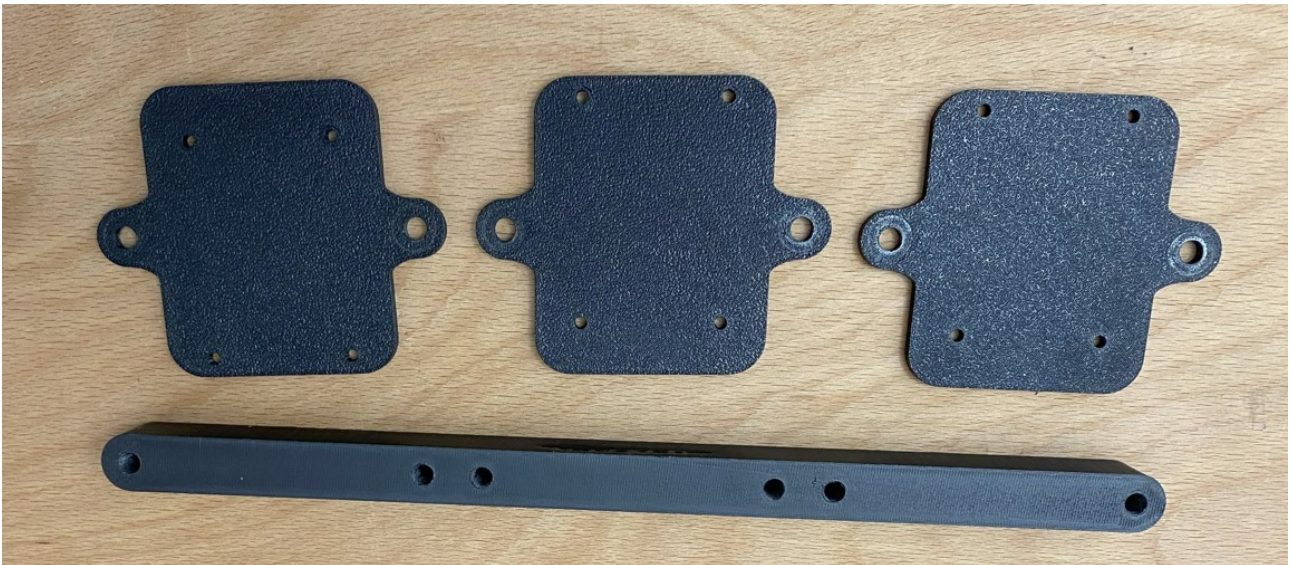


Printing layout





## Final result 2.0



Camera plate mounted to the camera





## Possible improvements

The rounding diameter is not ok, better try with a lower radius (current radius is 10 mm)

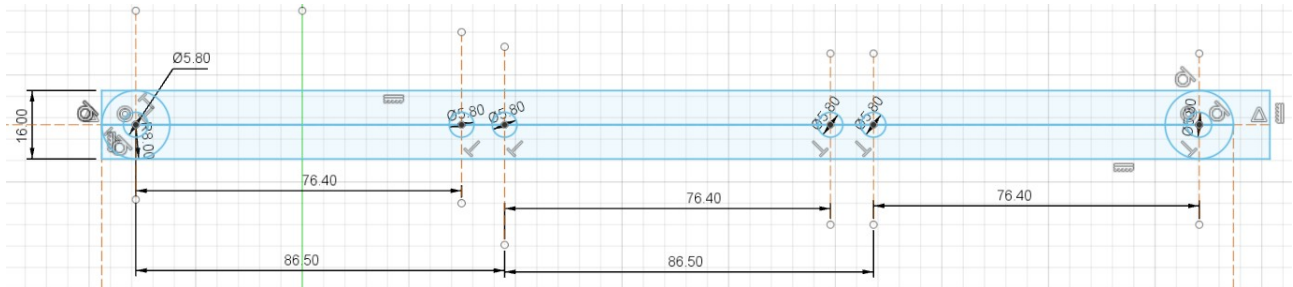


# Multi Camera mount 1.0 (3 cameras 1 Clamp)

## Support Beam

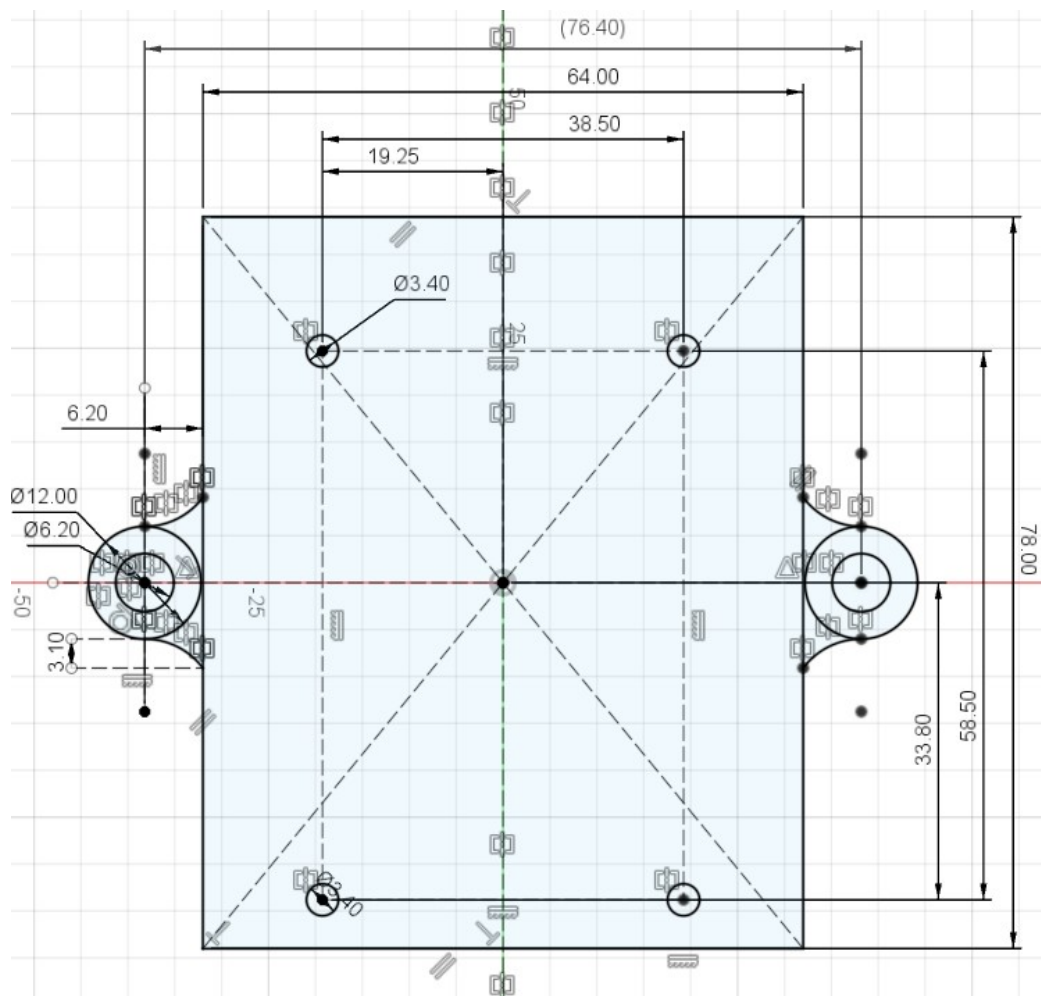
2 x 6 mm screws for each camera → 6 Screws

2 x 6mm washers for each camera → 6 Washers

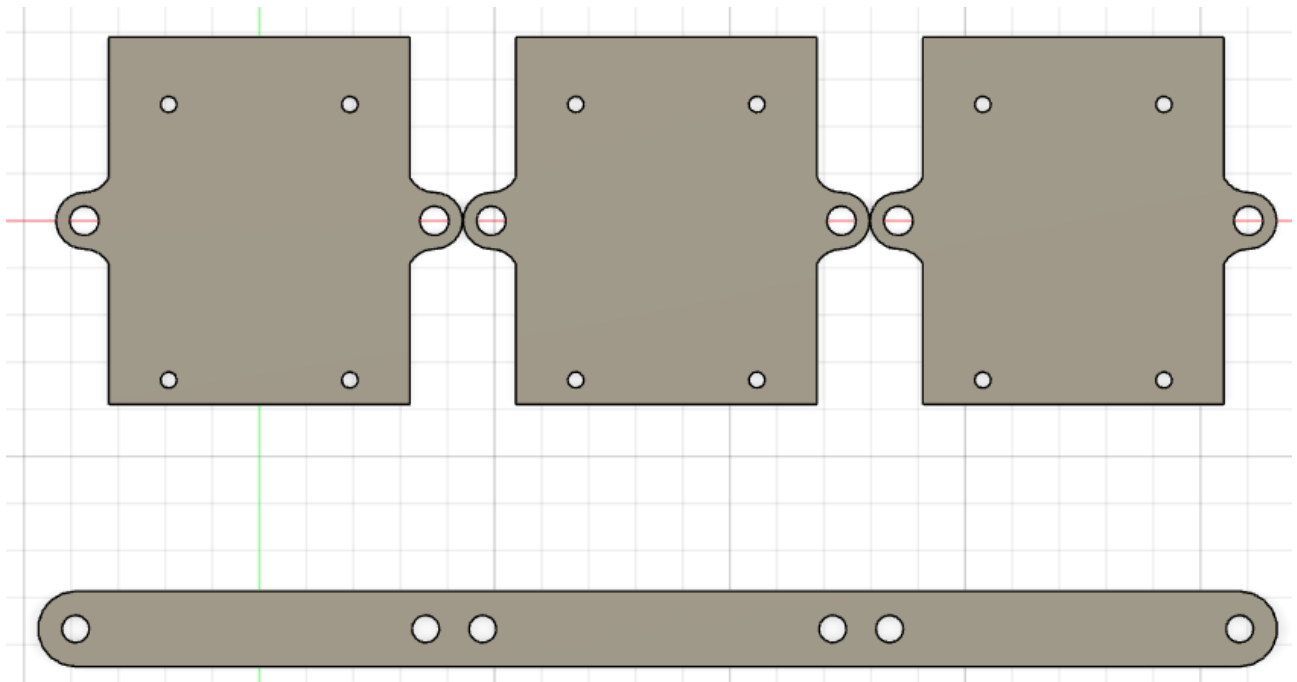


## Camera Plate

Thickness: 4 mm



## Top view



## Final result 1.0

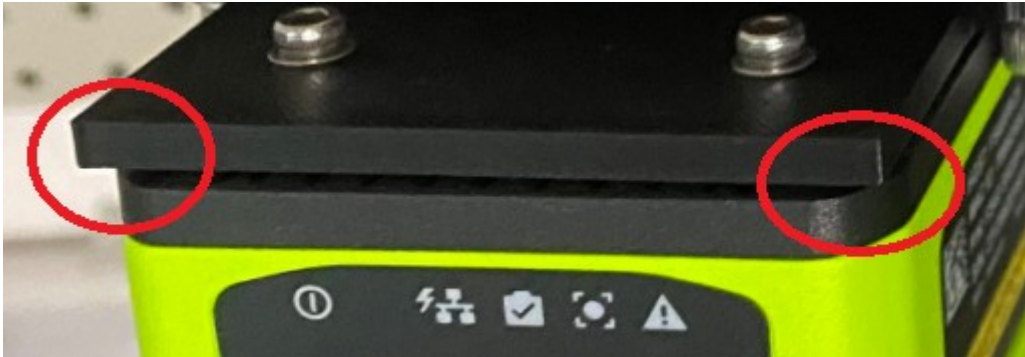




## Possible improvements

### Camera mount

Since the camera is rounded, so should be the camera mount. Having it squared makes it ugly



### Beam and camera mount joint

The beam is 16 mm wide, the mounting fixture is 12 mm wide, hence this give an impression of mismatching

