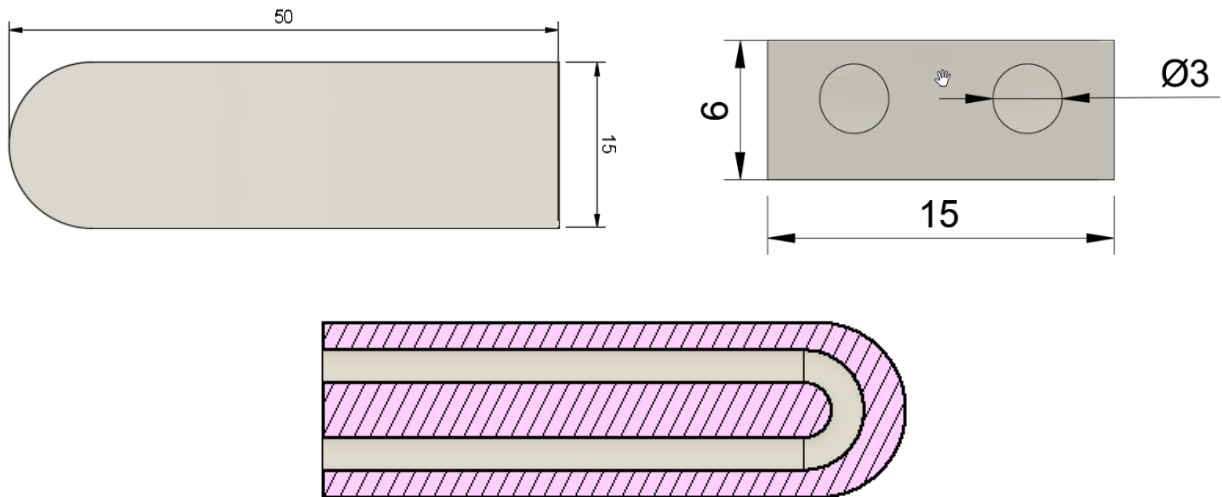


# New ATP Sensor Version 1

## Sensor:

Sensor dimensions:

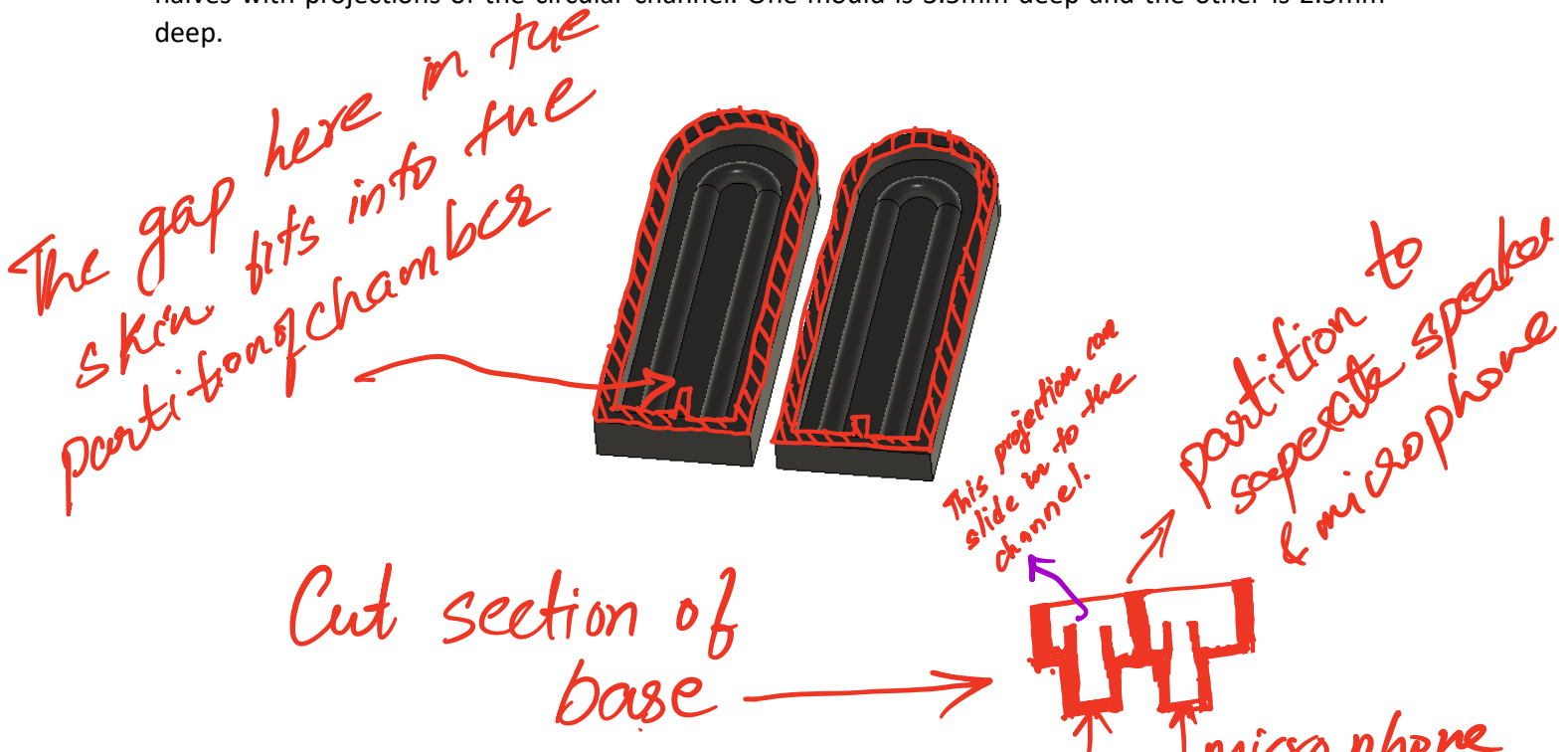


## Notes:

- 3mm diameter used for the circular acoustic channel as specified in the strawberry handling paper.
- 1mm spacing between the acoustic channel and the sensing surface (specified in the strawberry handling paper).

## Sensor mould:

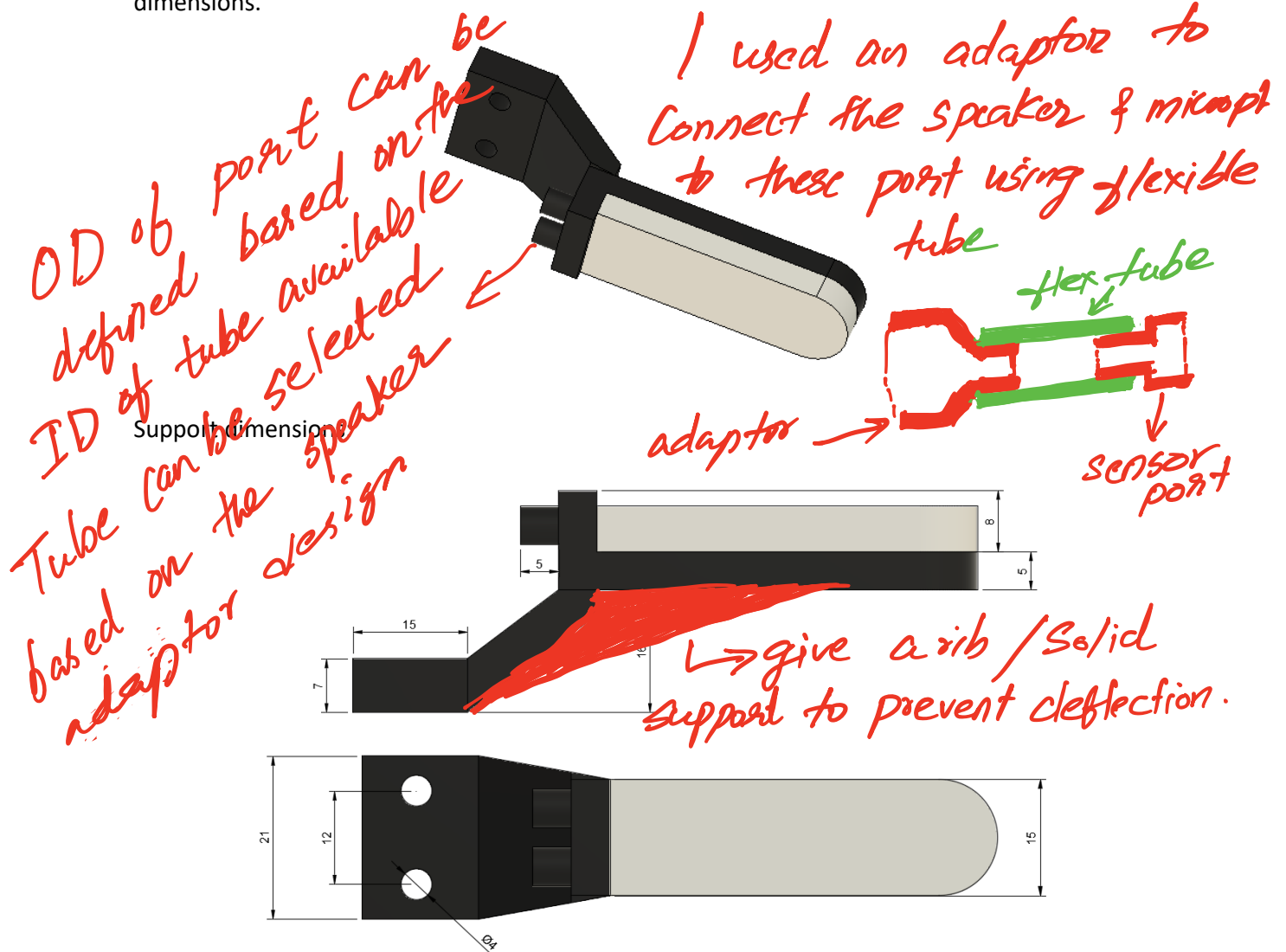
The design of the mould for the sensor is similar to the one used in the strawberry handling paper, two halves with projections of the circular channel. One mould is 3.5mm deep and the other is 2.5mm deep.



Microphone speaker

## Sensor support:

The dimensions of the sensor support were adjusted to account for the sensor and Franka hand dimensions.



## Notes:

- The diameter of the flexible tube port is not finalised.
- The angle of the slanted part of the support is not defined in the Franka hand manual. It has been set so that the ATP sensor will touch the mating dummy finger before the minimum position of the Franka hand is reached.
- Total length of the support is 82mm.
- Two mounting holes on the support have 4mm diameter to match M4 bolts.

## Questions

- ① Why two moulds are having different depths?
- ② Curious to know the full form of ATP?