Christophe's Adjustable Flat Plate Cells

> **Created By:** Christophe Campaign

Version 1

> Source: https://www.thingiverse.com/scarou/designs

Improvement of the initial variable plate cell. Now using a GT2 belt to move the plates instead of the previous complex nylon thread system.

Beware! You may learn something...

You will need:

> closed loop rubber GT2 timing belt 180-2GT-6.
> Stainless steel 4x M3x15 mm screws
> Stainless steel 8x M3x10 mm screws
> M5 threaded rod for the drive shaft
> 2 x Stainless steel plate for electrodes (the size you want. Could be in 304 material but not necessary)
> Something to connect the plates. (I usually use stainless steel metal cable ties)

Video:

https://www.youtube.com/embed/JcV2RfEz2I0

Files

> GT2_pulley.stl

> [GT2_pulley_drive.stl]
>
> [Sliding_support.stl]
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> [Base.stl]
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> [static_parallelism_adjustment_support.stl]

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Version 2

> Source: https://www.thingiverse.com/thing:1041707

Summary

Variable plate cell that can be used with the 8XA experiment. Fit easily in 85 mm diameter jar.

Post-Printing

It is designed for 60 mm plate width. (I use 60 x 120 mm 304L plates)

You will need:

> 4 smooth rods 3 mm diameter.
> 1 x M5 threaded rod (lenght depends of your plate size)
> 6 x - M5 nuts
> 4 x - M3 x 15 mm screws + Washers
> 2 x Small screws to block the fishinf line in place.
> Some fishing line (fluorocarbon works well)

Use a 3.1 or 3.2mm drill bit to have an effective guide with the 3mm smooth rods (Too much play and it will not work properly)

Files

> Plate_cell_-_Base_2.stl
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> Plate_cell_-_Base_1.stl
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> Plate_cell_-_Base_3.stl

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Revision #3
Created 2022-07-02 04:46:38 UTC by Chris Bake
Updated 2022-07-02 05:00:40 UTC by Chris Bake