

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

Base.stl

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

Plate_cell_-_Base_1.stl

Plate_cell_-_Base_3.stl

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Revision #3

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