

Adjustable Plate Cell

- [Christophe's Adjustable Flat Plate Cells](#)

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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

https://cdn.thingiverse.com/renderers/e4/6cd744f621d96f11e3e04d5e19c1b520f81f05927f89192a52687237d8e452f612528b011e7e2410f0f57fed59f1182218575d12540a7f6482ad05e3555384c1		
https://cdn.thingiverse.com/renderers/75/171d61125128b011e7e2410f0f57fed59f1182218575d12540a7f6482ad05e3555384c1		
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https://cdn.thingiverse.com/renderers/4f/151d61125128b011e7e2410f0f57fed59f1182218575d12540a7f6482ad05e3555384c1		

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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