



Brick Block Puzzle Box

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Summary

A puzzle box in the shape of a brick block.

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A puzzle box in the shape of a brick block.

Printing

All parts can be printed without supports, however **Level 4** includes some long bridging that must not droop for good functionality. This project includes a version of this object with minimal pre-built supports (Level_4_with_Supports.stl) if required.

This model has very tight clearances between some parts and may require careful tuning or post-print cleanup to function and fit smoothly. A good test print is Level_1.stl, Slider_Left.stl, and Slider_Right.stl. These three parts should fit snugly together but still slide. If they're too tight, try lowering your print temp, checking for elephants foot, or lowering your extrusion multiplier.

Assembly

See the [assembly video](#) for step-by-step instructions.

Here's a rundown of the printed parts and required quantities. All “brick” parts now have looser variants for printers that require that extra clearance. Test print one standard corner brick first to see if the default clearance will work for you.

- Brick_Corner.stl x 8
- Brick_Side.stl x 4
- End_Brick_Corner_Left.stl x 3
- End_Brick_Corner_Right.stl x 3
- End_Brick_Side.stl x 4
- End_Brick_Center.stl x 2
- Brick_Right_Slider.stl x 1
- Brick_Left_Slider.stl x 1
- Slider_Left.stl x 1
- Slider_Right.stl x 1
- Level_1.stl x 1
- Level_2.stl x 1
- Level_3.stl x 1
- Level_4.stl OR Level_4_with_Supports.stl x 1
- Level_3_Cover.stl x 1
- Gear.stl x 1

Latch.stl x2 Many of these parts snap together, but the puzzle will feel most solid if any piece that doesn't need to move is also glued in place.

Required Hardware

To lock Level 1 and Level 2 together

Two M3 bolts that are 6-12mm long.

To secure Level 3 to the central post of Level 2

One M3 bolt that is 6-18mm long.

Recommended Hardware

To improve slider movement

Seven 3mm x 3mm cylinder magnets

To improve lid rotation

Eight 3mm x 3mm cylinder magnets

This remix is based on



Brick Block Puzzle Box

by 3d-printy

Model files

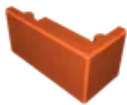


Default Bricks

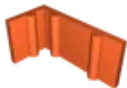
7 files



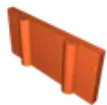
brick_right_slider.stl



brick_left_slider.stl



brick_corner.stl



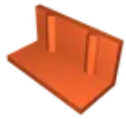
brick_side.stl



end_brick_corner_left.stl



end_brick_corner_right.stl



end_brick_side.stl

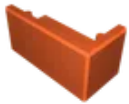


Looser Bricks

7 files



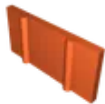
brick_right_slider_loose.stl



brick_left_slider_loose.stl



brick_corner_loose.stl



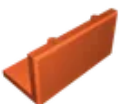
brick_side_loose.stl



end_brick_corner_right_loose.stl



end_brick_corner_left_loose.stl



end_brick_side_loose.stl



Other Parts

12 files



level_4.stl



level_4_with_supports.stl



level_3.stl



level_3_cover.stl



latch.stl



gear.stl



level_2.stl



level_1.stl



slider_left.stl



slider_right.stl



cube_stand.stl



end_brick_center.stl



Templates

1 file



template-all-files.step

[Find source .stl files on Thingiverse.com](#)

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