



# FILAMENT ROLLER COASTER!

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## Summary

IT'S TIME TO START BUILDING!

[Toys & Games](#) > [Building Toys](#)

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IT'S TIME TO START BUILDING!

Here is a very cool and entertaining model what could keep you and your kids busy for hours!

I designed a couple parts that can help you build a roller coaster using only toothpicks for the main structure and 1.75m filament for the reels.

The best part of this project is that the prints are very small and fast! You can print as many as you like so that the size of your roller coaster depends on you!

Pros:

- Small and fast prints, you keep on printing pieces while you are building.

- These are very small prints, so it's a great opportunity to use your filament leftovers!
- You can build it as big as you like!
- No glue required.
- You can use regular toothpicks or you can even use 1.75mm filament for the structure. (Try to use what you have at home, STAY AT HOME!!)

Lets start building!

## Print instructions

### 1) Print details:

No supports

No raft

0.2mm layer height.

### 2) Toothpick and joint assemble

- Use regular toothpicks. ( About 2mm diameter).
- Trim the tips from both sides using players. The total lenght of the toothpick must be of 5 cms long! (This is for the joint to work properly and it's safer for younger builders).

### 3) Filament clips assemble

- Pass the filament clips through the horizontal toothpicks.
- Use the curve clips in all curves. The fun part is that you will have to test your speed at all times!
- Use as many clips as possible.

-You can insert the filament in the clip holes with your hands or it might be easier by using some plyers.

- For the reels, it's best to use PETG filment. It's more flexible than PLA.
- It's easier to star building from bottom to top!

## Model files



**curve-filament-clip.stl**

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**20mm-ball.stl**



**straight-filament-clip.stl**



**start-end-filament-clip.stl**



**toothpick-joint.stl**

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