



## Replacement Drawer Roller



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### Summary

A friend at work had an old drawer with a broken runner wheel. The manufacturer no longer makes them. What a perfect...

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A friend at work had an old drawer with a broken runner wheel. The manufacturer no longer makes them. What a perfect situation for a 3D printer! I modeled the existing wheel in Autodesk's 123D Design using nothing but cylinders of various sizes, using the Combine/Merge and Combine/Subtract tools. I chamfered the edges of the wheel, but realized after printing the first prototype it wasn't enough, so added more and the second prototype looked good. I added the screw pocket on one side so when screwed to the bracket, the head will have some recessed room to hide in.

The wheel measures 28.2mm in diameter, with a 7mm hole in the center. The projection on the side is 5.26mm. I'm including the 123D file in case anyone else needs to modify this to suit their application.

### Print Settings

#### Rafts:

No

**Supports:**

No

**Resolution:**

.2mm

**Infill:**

100%

**Notes:**

Printed with Taulman 910 Alloy Nylon, so it should last forever

**How I Designed This**

Designed in 123D Design. Started with a cylinder the correct wheel dimensions, chamfered the sides, added another cylinder on one side for the extension. Used a 3rd 7mm cylinder to cut the screw hole through the center and a 4th 10mm cylinder to carve out the screw pocked on the opposite end.

Category: Replacement Parts

**Model files**

**drawer\_wheel\_chamfer\_screw\_pocket.stl**

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

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