

## Dust Collection Port (v1.0) for DIY Router Table - designed for 2.5" hose from Vacmaster shop vac



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### Summary

Dust Collection Port (v1.0) for DIY Router Table, designed for 2.5" hose from Vacmaster shop vac, prints without support

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Tags: [dustcollection](#) [routertable](#) [dustport](#) [dustchute](#)

You may also be interested in my **Featherboard for woodworking, no supports needed, with M5 & M6 options for knobs & track slides**

**NOTE:** There is now a new counterpart to this one that enables capturing dust that escapes out the bottom. Get it here: <https://www.printables.com/model/432095-makita-rt0700-dust-extractor-for-25-inch-shop-vac->

## **Dust Collection Port (v1.0) for DIY Router Table - designed for 2.5" hose from Vacmaster shop vac. Also "works perfectly with a Rigid 2.5" shop vac hose" according to Printables member @zedcorrado.**

Prints without supports.

This posting supports two different hose ends of my Vacmaster shop vac, one I'm labelling Type "A" that is more popular in use (I think), and another that I'm labelling Type "B" that is a plain ring, which is probably used less often (I think). Since the two ends are not the same OD, the dust chute can only accommodate one by itself. That's Type "A." So, I am including another printable part, an adapter for accommodating Type "B." I've uploaded images that show which end I'm calling "A" and "B."

### **Regarding Type "A"**

Inside diameter (ID) of the port on the dust chute is slightly tapered from 58.6mm down to 56.8mm. The Vacmaster shop vac hose fitting is also slightly tapered.

### **Regarding Type "B"**

The adapter's openings are not tapered, and its bottom is designed to slide onto the main part, while its top is designed at an inside diameter (ID) of ~62mm to accommodate the larger, bare-ring hose end I'm labelling as Type "B."

### **Print settings**

I suggest printing with these settings:

- Print as oriented.
- Supports: No
- Filament type: PLA (I used PLA+)
- Nozzle diameter: can be 0.4mm or 0.6mm
- Layer height: 0.3mm
- Wall thickness: 0.6mm
- Number of perimeter walls: 3
- Infill: 30%

Note: The suggested layer height and wall thickness are normal for a 0.6mm nozzle, but can easily be done by a 0.4mm nozzle, in which your 0.4mm emulates a 0.6mm. This results in faster print times compared to normal settings for 0.4.

## Backstory

Been planning to make a router table for a long time. Had already ordered a cast aluminum router plate and some t-track. They've been just taking up space for the longest. I finally decided to use some scraps of OSB (leftover from my LowRider table build) for legs, hardboard scraps (left over from cutting LR3 struts for what is now going to be the center beam/gantry for my CNC plasma table) for skin around the legs, a piece of scrap plywood someone had literally abandoned after a work project, for the top, and some MDF (left over after cutting my LR3 YZ plates) for making the fence. It ain't pretty, but it will get the job done, and I don't need it to be pretty. The only things that aren't leftovers/scraps are the cast plate, t-track, and the 3D-printed dust collection port I designed and printed. Used a hole saw and band saw to notch out the dust port on the fence back and fence bottom. Used my table saw top and fence to clamp to for the glue-up of the fence, to try to get as square as possible. I'm planning to actually use the new router table to dado for the t-track in the fence.

PS: I drew inspiration for my fence from this excellent video:

**My PayPal tip jar:** <https://paypal.me/design8studio>

**Various LowRider 3 CNC remixes:**

- [LowRider 3 CNC Collection](#)

**View all my models and remixes on Printables:**

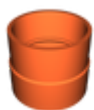
- [Design8Studio 3D models](#)

\*Amazon product links are affiliate links.

## Model files



**dust-collection-port-for-router-table-v10.stl**



**adapter-connector-for-plain-hose-end-ring-type-b.stl**

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