

Parametric Drilling Dust Collector



Georg

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Summary

Vacuum tool that holds it selves to the wall by under pressure to cleanly drill holes by remove the dust at the borehole

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Tags: [tool](#) [collector](#) [vacuum](#) [dust](#) [clean](#) [drilling](#)
[vacuumadapter](#) [vacuumcleaner](#)

A peace to put on your Vacuum cleaner to avoid contamination with drill dust.

Sucks away directly at the borehole.

Pay attention to the power setting of the vacuum cleaner one can easily peel of the wallpaper.

Set the Power to the lowest setting so the dust collector sticks to the wall and doesn't move.

To fit it to your own device:

There are a Parameter section around line 66.

// === Fitting ===

And a Test print Area around line 123.

// =====

// = Test Fitting of Printets Sub Parts =

// =====

were you can print slices and subsections of the part to test the fitting and

not waste Time and Material.

use “//” to comment out

use “!” to tell openSCAD to only use that module.

Put the “//” and “!” in front of the line where the module is called.

//HOOSE_FIT_TESTER (); → is commented out

!HOOSE_FIT_TESTER (); → Only that module is calculated.

to get a STL out of openSCAD press F6 and File/Export the STL.

Print instructions:

I set Prusa to make a Draft. Time needed 6.5h

Print it up right on the Ring where the hose will fit.

I used a brim with 0.0mm distance.

Only the hose section will need Support.

The Actual Parameters fit to the hose of a Kärcher WD6 P Vacuum cleaner.

// === Fitting ===

VacuumFittingDiameter=35.5; // smaler diameter of the hose at the end

VacuumFittingDiameterNeck=35.95; // Diameter at the Neck of the hose

VacuumFittingLength=35; // length of the zylinder shape

VacuumFittingTaper_Factor=1.00625; // for fine tuning to make a snug fit

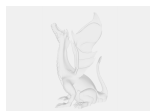
VacuumFittingWallThickness=10; // Actualy is half of that

Model files



parametric_drilling_dust_collector_v13.stl

☐ Fits for a Kärcher WD6 P



parametric_drilling_dust_collector_v13.scad

☐ Fits open definition

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