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System Design
Guide

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How to Design A Dust .
Collection System .
Clamp together ducting
. Easy & fast to install,
just clamp together, no
rivets, screws or
welding needed .
Adaptable to your
existing ductwork .
Local dealer support .
Leak-tight laser welded
seams, instead of lock-
form or spiral duct -

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which badly leaks and allows debris harbors and snag opportunities

How to Design A Dust Collection System

Dust Collection Design Guide A dust collection design guide (in PDF format) originally written by Air Handling Systems - July 17, 2001
This document -
"Designing Your Air Handling Dust System"
- is a design guide

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originally written by Air Handling Systems, and has been converted into a two page PDF document (*requires Acrobat Reader*).

Dust Collection Design Guide - WOODWEB

Our free guide, How to Design a Dust Collection System, provides a summary of the factors you need to consider, including:
Identifying dust

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collection points.

Determining hood or enclosure design requirements.

Calculating air volume.

Designing ductwork and accounting for ductwork losses.

Selecting the right collection device and exhaust fan. And more!

Guide: How to Design a Dust Collection System

For a dust collection system to function ade-

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quately engineers must design and operate the system to maintain the (4) key design parameters of CFM, FPM, Vacuum Pressure and Air to Cloth Ratio (or A/C). Changes to any of these key system parameters will result in systemwide performance issues.

Designing and Sizing Baghouse Dust Collection Systems

There are two phases

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to designing your dust collection system: The first phase is sizing your duct work for adequate volume and velocity of flow for the type of dust you will be creating; and the second phase is computing the static pressure (SP) of your system to determine the size and power of your dust collection unit.

Designing an
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Efficient Dust Collection System - Spiral ...

There are five simple steps to designing an effective and efficient dust collection system.

1. Draw a floor plan of your shop
2. Determine Duct Velocity (FPM)
- 3.

Design Information Designing Your Dust Collection System

Dust collection design can be complicated, here are a few simply

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steps to laying out an effective and efficient dust collection system. We have simplified the dust collection system design process for smaller shops, it is important to know federal, state and localities have codes and regulations enforced by AHJ (Authorities Having Jurisdiction) governing sales, construction, installation and or use of dust collection

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systems.

Dust Collection Information - Air Handling Systems

How dust collection systems work A dust collection system works by capturing woodworking dust and debris in a stream of air and moving it through the system's ductwork to a collection area. It's powered by a dust collector that uses a

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large induction motor to drive a special type of fan called an impeller.

Getting Started with Dust Collection

If you have made an investment in a powerful dust collector, that is a great first step toward creating a healthy shop environment. For purposes of this article I will assume that you have worked with your

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vendor to choose a dust collector that is capable of delivering enough air flow (ideally 1000 cubic feet per minute at 4000 feet per minute) at each tool to remove all of the fine dust that ...

Simplifying Dust Collection for Your Woodworking Power Tools

Many dust collection systems suffer due to poor ductwork designs.

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There is a large amount of misinformation about what the proper size pipe is to run. In reality, proper pipe sizing can get complicated and depends on many variables; tool size, air requirements, length of pipe run required, number of machines running at one time etc.

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The Industry Leader in Dust Collection

economical and biggest-selling dust collectors are the two-bag, single-stage models. Single stage means the dust is sucked through the impeller (fan) and dumped into the lower bag. The upper bag collects fine sawdust and lets the exhaust air back into the shop.

Dust Collection for
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**the One-Man Shop -
Woodcraft**

Ductwork is used to carry the dirt and air from the collection point to the collector. It must be sized properly to create a “carrying velocity” to keep dirt moving through. Duct sizing is based on 2 variables: the particulate being collected and the volume of air being moved. The heavier the dirt, the higher the

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air velocity needed.

Sizing Ductwork for Dust Collection Systems

Choosing a dust collector can be anything but simple. We've stripped away the mumbo-jumbo to show you what you really need to know. It's ironic: Tablesaws create dust with every cut, but that same debris can restrict the saw's ability to tilt,

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elevate, and make more cuts. Because my shop has several ...

Dust Collection | WOOD Magazine

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Air Handling Design Guide

In this design guide we have reviewed a relatively simple baghouse dust

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collection system with few variables. Even at this level it is still recommend to consult with an experienced dust collector OEM like Baghouse.com before making any equipment purchase.

Additional Considerations for Dust Collection System ...

In this guide, we will look at dust collection as a system. We'll then

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discuss each individual component of the system and how it can help or hurt overall performance. Then, we'll talk about what to consider as you work to achieve the best design for your specific individual needs.

Dust Collection - Choosing the best dust collector and ...

Total collection
efficiency sample
calculation particle size

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range particle size
fractional efficiencies
(microns) distribution
d50 collection collected
particulate min max (%
by weight) (microns)
(% by weight) (% by
weight) 0 5 3 2.5 25.96
0.78 5 10 5 7.5 94.83
4.74 10 20 12 15 98.79
11.85 20 30 19 25
99.28 18.86 30 40 13
35 99.87 12.98

Basic Cyclone Design - ASME Met Section

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Shop Woodcraft's Dust Collection for Air Filters, Dust Collection Equipment, Shop Vacuum Systems, Hose and Fitting Accessories. Accessibility Information; ... Dust System Accessories 12. Filter 12. Dust Collector 8. Air Filtration 7. Kit 7. Cleaning Set 6. Shop Vac Fitting 5. Adapter 4. Cartridge Filter 4. Dust Hoods and Nozzles 4.

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