



QUICK-FIT



THE WORLD'S FASTEST DUCTING

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 - which badly leaks
and allows debris harbors and snag opportunities
- **45% less labor to install**
- **45% less downtime
for installation**
- **Re-useable,**
easy to modify and easy to move as
your needs change
- **Nordfab provides:**
quick delivery, order tracking and lower
freight costs



Step One: Layout the Machinery Of Your Shop.

The first consideration is the limitation of workshop space (ceiling height, obstructions, electrical service, etc.). It is advisable to place machines requiring the largest cubic feet per minute (CFM) of airflow closest to the dust collector. The required CFM for each machine may be available in your owner's manual. If not, measure the diameter of the dust ports on the machine and use the chart below to estimate the CFM requirements (example: if your woodworking machine has a 3" port you can infer that it requires approximately 220 CFM). If a machine has multiple dust ports, the total CFM for the machine is the sum of all of the ports.

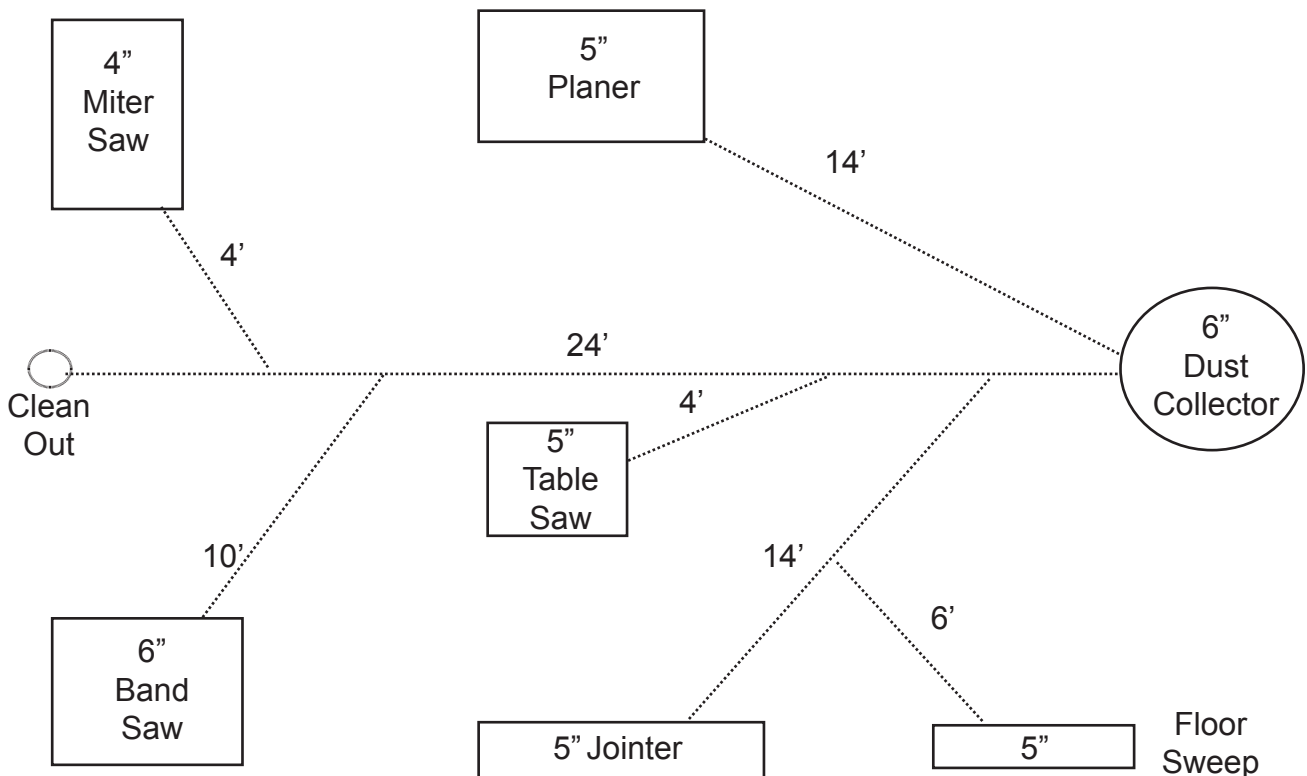
Inlet Diameter	1"	1.5"	2"	2.5"	3"	4"	5"	6"	7"	8"	9"	10"
CFM	24	53	98	150	220	395	614	884	1203	1570	1990	2455

Step Two: Draw a Top-Down View Sketch (to Scale) Of Your Machines and Dust Collector.

Using grid paper makes this job more accurate. Be sure to indicate the exact location of each dust port. Indicate the CFM requirements for each dust port.

Step Three: Determine the Total CFM Required For Your Whole System

Do this by adding the CFM requirements for all dust ports on all of your machines. The total CFM requirements for your entire shop may exceed the capacity of your dust collector. If that's the case blast gates which allow machines not in use to be isolated from the dust system by closing the appropriated blast gate.



Illustrates a simple bird's-eye view of a 30' x 24' shop with the mainline duct running down the center of the shop.



NORDFAB®
QUICK-FIT
THE WORLD'S FASTEST DUCTING

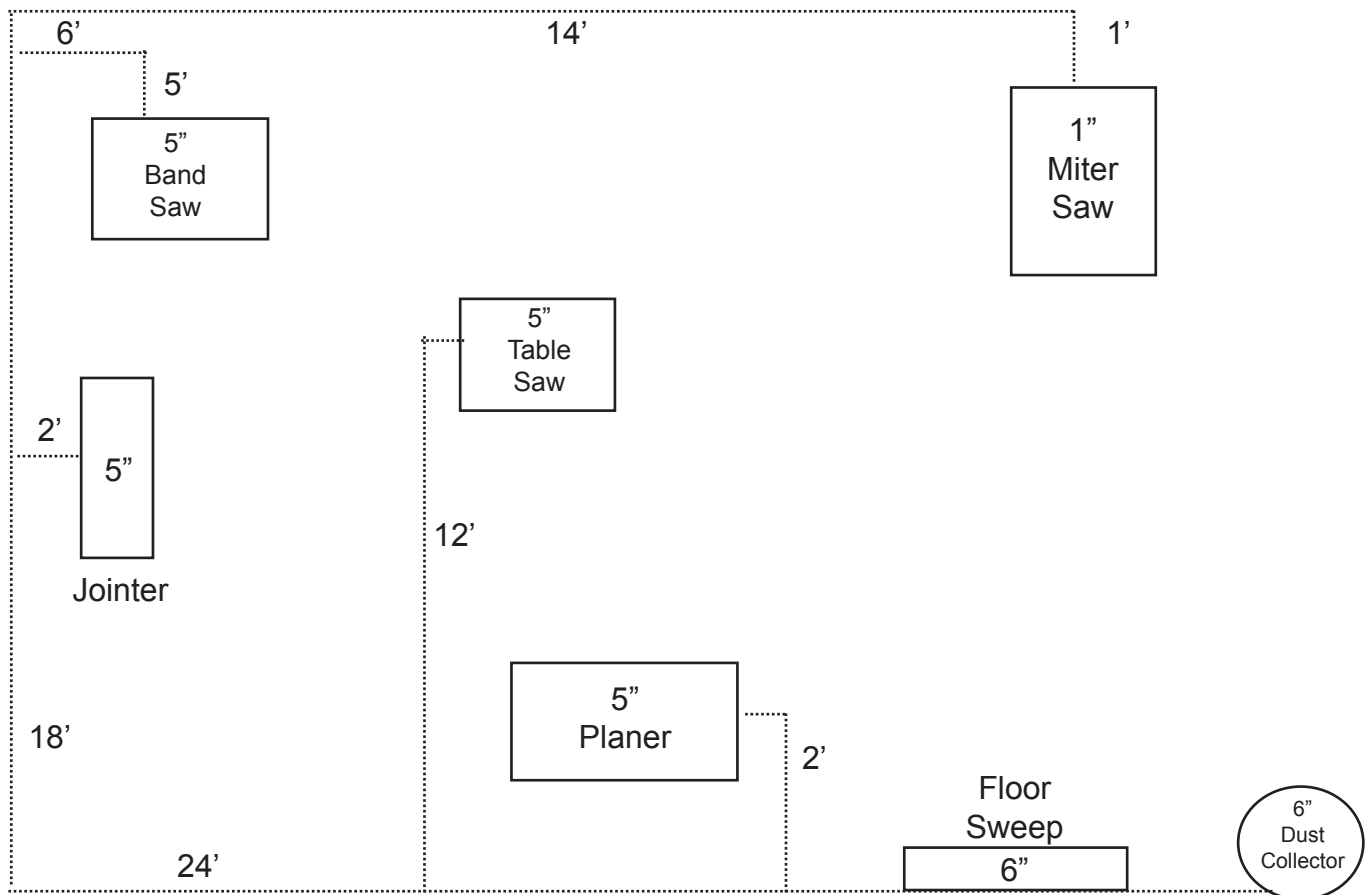
Step Four: On Your Drawing, Sketch Out The Position of Your Main Duct Line.

Be sure to run the ducting so that it ends directly above each dust port.

Step Five: Determine The Size Of your Ducting.

Begin at the machine that is farthest away from your collector and work your way back towards the filter. Determine the appropriate diameter for the CFM requirements at the first machine. (Example, if the machine has a total air volume of 395, then 4" ducting will be required.) Continue on to the second machine. If machine two has a dust port that is 3" when it connects to the main duct (where the 4" duct from machine one connects), you will add the CFM from the chart ($220 + 395 = 615$ or 5" duct). You would size the branch as a 5-3-4, with 5" being the largest reducing to 4" with a 3" branch going out the side at 30-degrees. Keep in mind that it will require a 60-degree elbow to make the run perpendicular.) **(NOTE:** It is likely that the CFM requirements of your machine will not match the chart below exactly. When this occurs, select the pipe size that is the closest to the required diameter). Continue on to the remaining machines per the example above, until your main trunk is equivalent in diameter to the size of the collector inlet. For example, consider a system where the main trunk line is 6" in diameter (representing 615 CFM). When connecting to a machine that requires 395 CFM (4" diameter), you would normally add $615 + 395 = 1010$ (requiring a 7" duct). However, if the machine can be isolated with a blast gate, then you will not need to add the two air volumes. The existing 6" trunk line would suffice.

IMPORTANT SAFETY NOTE: All dust systems MUST be grounded to avoid a buildup of static electricity in the ductwork or filter.



Illustrates a simple bird's-eye view of a 30' x 24' shop with the mainline duct running down the center of the shop.

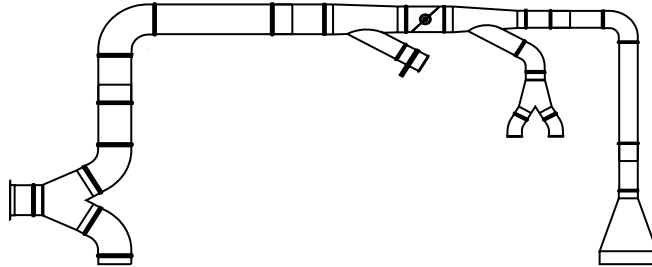


QUICK-FIT



THE WORLD'S FASTEST DUCTING

These metal industrial dust collection fittings are simply the best you can find--period! The Quick-Fit system makes assembly a snap and is virtually air tight! No measuring or cutting. The Quick-Fit system features simple to use clamps with nitrile seals, welded heavy gauge galvanized pipe and fittings with rolled ends. And talk about versatility, Quick-Fit offers just about every fitting you'll ever need. Forget about stove pipe and duct tape, if you're looking for a truly efficient, easy to assemble duct system, this is it!



QUICK-FIT FAST FAX TO: 336-889-7873

- YES! PLEASE SEND ME A CATALOG ON QUICK-FIT
- RUSH! I HAVE A CURRENT PROJECT THAT REQUIRES QUICK-FIT DUCT
- I HAVE A FUTURE PROJECT AND NEED MORE INFORMATION
- PLEASE SEND ME A CAD DISK WITH ALL Q-F PARTS

NAME: _____ COMPANY: _____

ADDRESS: _____ CITY: _____ ST: _____ ZIP: _____

PHONE: _____ FAX: _____ EMAIL: _____

CURRENT NEED: _____

DATE NEEDED: _____

**150 Transit Ave/ PO Box 190
Thomasville, NC 27361-0190
Toll Free: 800-532-0830
Fax: 336-889-7873**

**1050 Spice Island Dr.
Sparks, NV 89431
Toll Free: 800-532-0830
Fax: 336-410-0872**

www.nordfab.com

Disclaimer and liability

This information is intended for informational purposes only, and Nordfab and its suppliers disclaim all liability and responsibility for its use in the specific design of any dust collection system. Nordfab AND ITS SUPPLIERS SPECIFICALLY DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY FOR FITNESS FOR A PARTICULAR PURPOSE. Nordfab and its suppliers make no representation that this information complies with any applicable governmental regulations or codes. Use of any of the drawings or technical data on this information for any specific dust collection application is at the user's own risk. Nordfab and its suppliers recommend that no dust collection system be designed or installed without specific evaluation of the task and system requirements by a qualified engineer or other competent professional. Information and technical data provided in this piece are illustrative only and Nordfab and its suppliers disclaim any and all representations as to their accuracy.