



## CFM Requirements and Proper Branch Diameter Sizes

Guide to proper CFM requirements and proper branch diameter sizes (additional notes on machinery as required).

### Band Saw

1-4" Duct - 350 CFM at hood below table & at rear of base.

Note: Most 12" to 18" (Wheel Dia.) band saw bases are sufficiently enclosed to permit use of 1-4" takeoff at rear of base.

### Belt Sander-Vertical & Top Horizontal (with both pulleys and rear or bottom enclosed)

Size	Branch	CFM
To 6"	1 - 4 1/2"	440 CFM
6 to 9"	1 - 5"	550 CFM
9 to 14"	1 - 6"	800 CFM

### Belt Sander - Edge & "Bottom Run" Horizontal

Drive Pulley			Idler Pulley		
Size	Branch	CFM	Size	Branch	CFM
To 6"	1 - 4 1/2"	440 CFM	To 6"	1 - 4"	350 CFM
6 to 9"	1 - 5"	550 CFM	6 to 9"	1 - 4"	350 CFM
9 to 14"	1 - 6"	800 CFM	9 to 14"	1 - 4 1/2"	440 CFM

### Disk Sander

Size	Branch	CFM
To 12"	4"	350 CFM
13 to 18"	4 1/2"	440 CFM
19 to 26"	5"	550 CFM
27 to 32"	2-4"	785 CFM

### Drill Press

Description	Branch	CFM
Small Press	4"	350-400 CFM
Large Press*	4"	350-400 CFM

\*can have mortising attachment

### Single Drum or Spindle Sander

Size	Branch	CFM
To 49 Sq In	1 - 3"	195 CFM

### Drum Thinning Sander (Dual Drum)

Machinery	Branch	CFM	Machinery	Branch	CFM
w/ sgl 5 in. or 6 in dust port	6"	800 CFM	w/dual 4 in. dust ports	6"	700 CFM

### Floorsweep (\*Do not include in system CFM requirements.)

Branch	CFM
5" - 6"	550 - 785 CFM*

### Joiners

Diameter	Branch Size	CFM
To 6"	1-4" Duct	350 CFM
7 to 12"	1-4 1/2"	440 CFM
3 to 20"	1-5"	550 CFM



## CFM Requirements and Proper Branch Diameter Sizes (continued)

### Wood Lathe (non-automatic)

<u>Machinery</u>	<u>Branch</u>	<u>CFM</u>
Small	4"	400 CFM
Medium	5"	550 CFM
Large	6"	650-750 CFM

Note: For "flotation dust control" use 1-4" Duct - 350 CFM and a suspended hood.

Other references for Hooding a wood lathe: *Woodshop Dust Control* by Sandor Nagyszalanczy. Sandor says: "Wood lathe: As with other dust situations, the best way to deal with savings and dust created on a wood lathe is to pick them up as close as possible to the point where they are first created. . . . a simple nozzle on the end of a flex hose. The nozzle is positioned directly underneath the tool rest, to catch shavings as they come off the turning. Secured with a bungee cord, the hood is easy to reposition or remove to vacuum shavings out of the inside of closed vessels, such as deep bowls and vases."

### Planer or Surfacers

#### Single (Top)

<u>Size</u>	<u>Branch</u>	<u>CFM</u>
To 20"	1-6"	785 CFM
21 - 26"	1-7"	1100 CFM
27 - 32"	1-8"	1400 CFM

Radial Arm Saw\* (\*Use an Air Handling Systems Radial Arm Hood for collecting dust from this machine. See our catalog. Part #: *RADIAL*.)

<u>Branch</u>	<u>CFM</u>
4 1/2"	500 CFM

### Router table

<u>Machinery</u>	<u>Branch</u>	<u>CFM</u>
Router Table	3" - 4"	200-350 CFM
Router-type Joinery	3" - 4"	200-350 CFM

### Scrollsaw

<u>Branch</u>	<u>CFM</u>
3" 4 "	200-350 CFM

### Spindle Shaper (single arbor)

<u>Machinery</u>	<u>Branch Size</u>	<u>CFM</u>
w/3/4 HP motor	4"	400 CFM
w/ 1 1/2 HP	5"	550 CFM
w/ 3 HP	6"	700 CFM

### Swing Saw

<u>Size</u>	<u>Branch</u>	<u>CFM</u>
To 20"	4"	350 CFM

### Table Saw

<u>Size</u>	<u>Branch</u>	<u>CFM</u>
To 16"	4"	350 CFM

### Wide Belt Sander

<u>Machinery</u>	<u>Branch Size</u>	<u>CFM</u>
12"-15" wide belt	5" - 6"	500-800 CFM
15"-24" wide belt	6" - 8"	800-1,200 CFM