



File Memo
Trenton Chemical
July 26, 1972

Subject: Asbestos

On July 18, 19 and 20 the writer accompanied Mr. R. Zoller and Mr. J. Vukovich, representatives of the Michigan State Health Department and the U. S. Department of Labor Target Health Hazards Program. Mr. Zoller and Mr. Vukovich surveyed operations where asbestos is used in both the Chemical Plant and Friction Materials Building in Trenton.

Four samples were collected simultaneously with R. Zoller and J. Vukovich and all sample results were well within the 5 fiber per milliliter threshold limit value for asbestos. Several other samples were taken by these gentlemen at operations which were sampled during our periodic survey dated June 28, 1972.

The sampling technique used by these gentlemen could be challenged if any sample results were found to be excessive. They attached the sampler to individuals and left the area. Employee could load the filter by intentionally generating an asbestos cloud in front of the sampler. Mr. Zoller agreed that this is a possibility.

Following this study R. Zoller and J. Vukovich stated that the ventilation system appeared to control the asbestos dust in the subject operations. If their sample results are significantly different than our sample results, a study should be made to re-evaluate our laboratory technique.

G. A. S.

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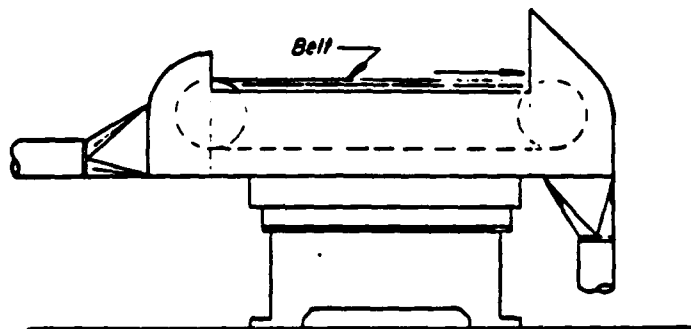
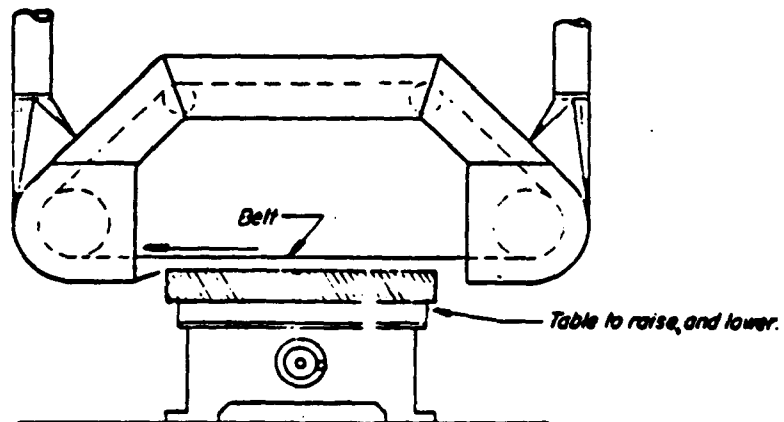
cc: N. A. Trombley

Data Sheet
Friction Materials Building
JULY 1972

<u>Location</u>	<u>Asbestos Concentration</u>
Threshold Limit Value	<u>in fibers per ml</u> 5.0
Bay D7 - Brake shoe grinder	0.4
Bay B9- Brake lining ID grinder	0.3
Extruder #2 and #3	0.1

Chemical Products Building

Mezzanine	
Loading asbestos into day blender	0.1

**HORIZONTAL BELT SANDERS**

Belt width, inches	Exhaust volume, cfm		
	Head end	Tail end	Total
Up to 6 incl	440	350	790
over 6 to 9 incl	550	350	900
over 9 to 14 incl	800	440	1240
over 14	1100	550	1650

Duct velocity = 3500 fpm

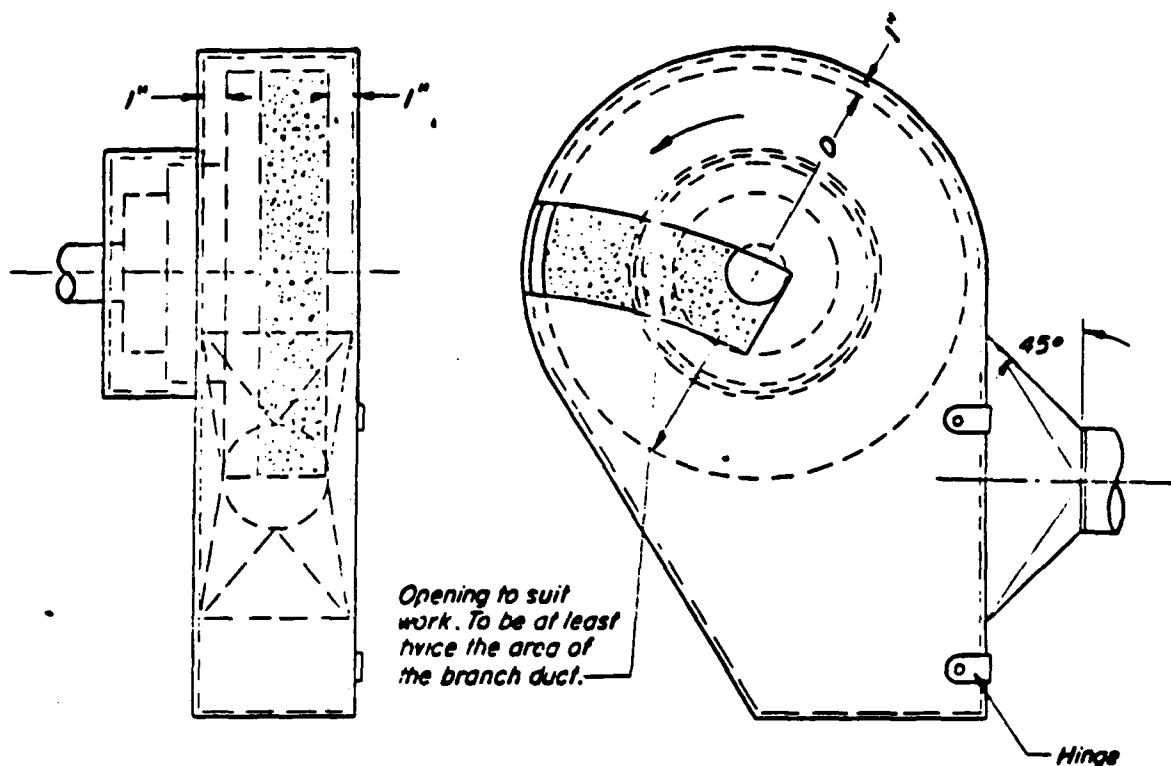
Entry losses = 0.40 VP for tapered take-off

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HORIZONTAL BELT SANDERS

DATE 1-64

VS-702



<i>Disc diam., inches</i>	<i>Exhaust volume, cfm</i>
<i>Up to 12</i>	<i>220</i>
<i>over 12 to 19</i>	<i>390</i>
<i>over 19 to 30</i>	<i>610</i>
<i>over 30 to 36</i>	<i>880</i>

Minimum duct velocity = 4500 fpm branch, 3500 fpm main.

Entry loss = 0.65 VP for straight take-off.

= 0.45 VP for tapered take-off.

Note: If best practical hood is a poor enclosure, increase exhaust volume accordingly.

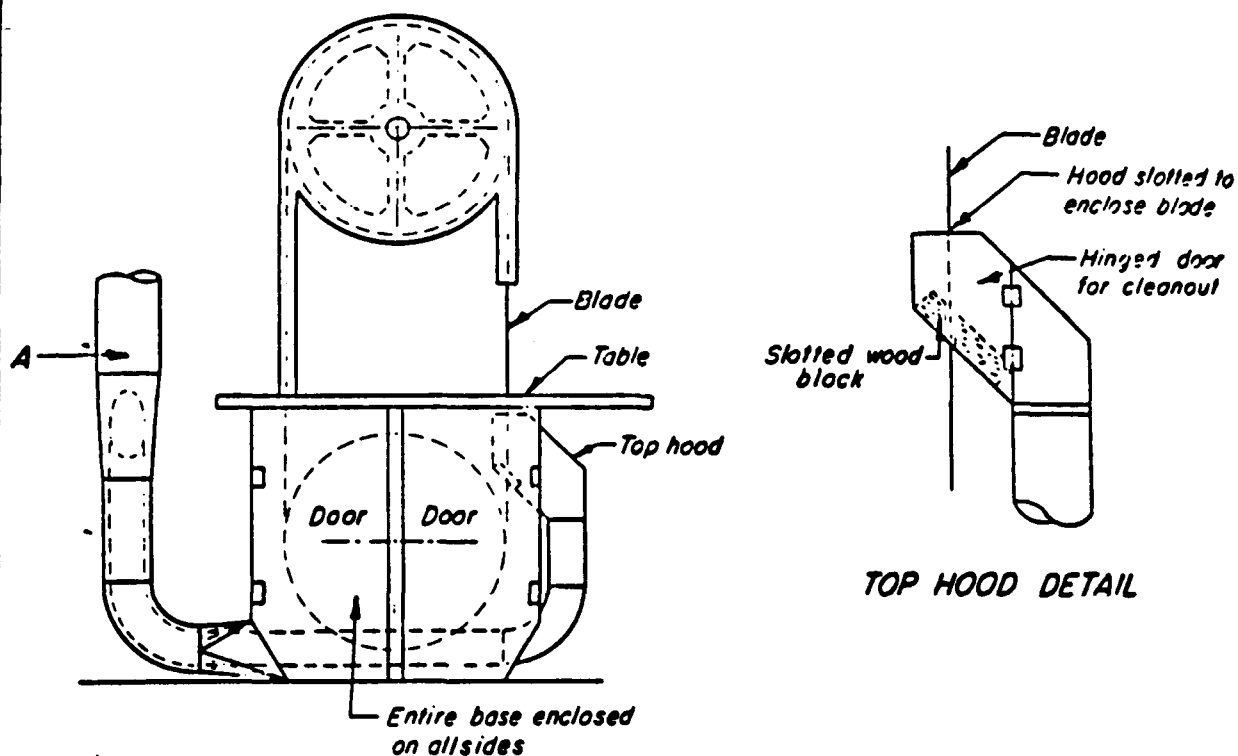
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**HORIZONTAL SINGLE-SPINDLE
DISC GRINDER**

DATE

1-64

VS-409



Blade width, inches	Exhaust volume, cfm		
	Bottom	Top	Total
Up to 2	350	350	700
over 2 to 3	350	550	900
over 3 to 4	550	800	1350
over 4 to 6	550	1100	1650
over 6 to 8	550	1400	1950

Duct velocity = 3500 fpm

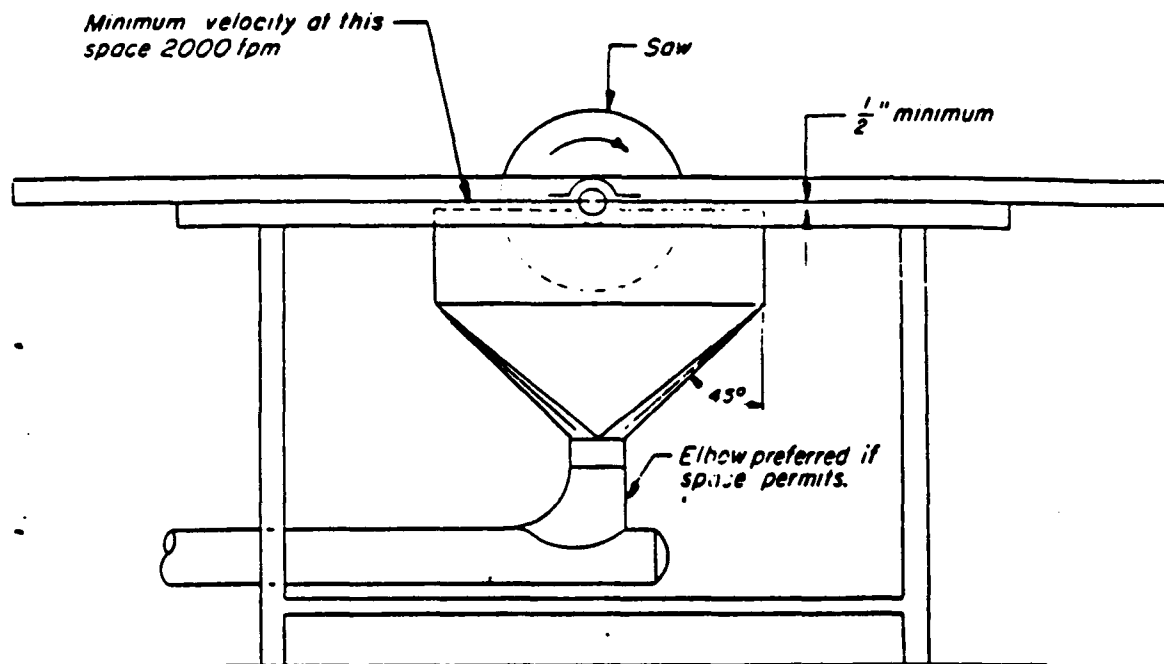
Entry loss = 1.75 VP in duct riser (Point A)

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BAND SAW

DATE 1-66

VS-706



Table, rip, mitre and variety saws.

<i>Saw diameter, inches</i>	<i>Exhaust volume, cfm</i>
<i>Up to 16 incl.</i>	<i>350</i>
<i>over 16 to 24 incl.</i>	<i>440</i>
<i>over 24</i>	<i>550</i>
<i>variety with dado</i>	<i>550</i>

Duct velocity = 3500 fpm

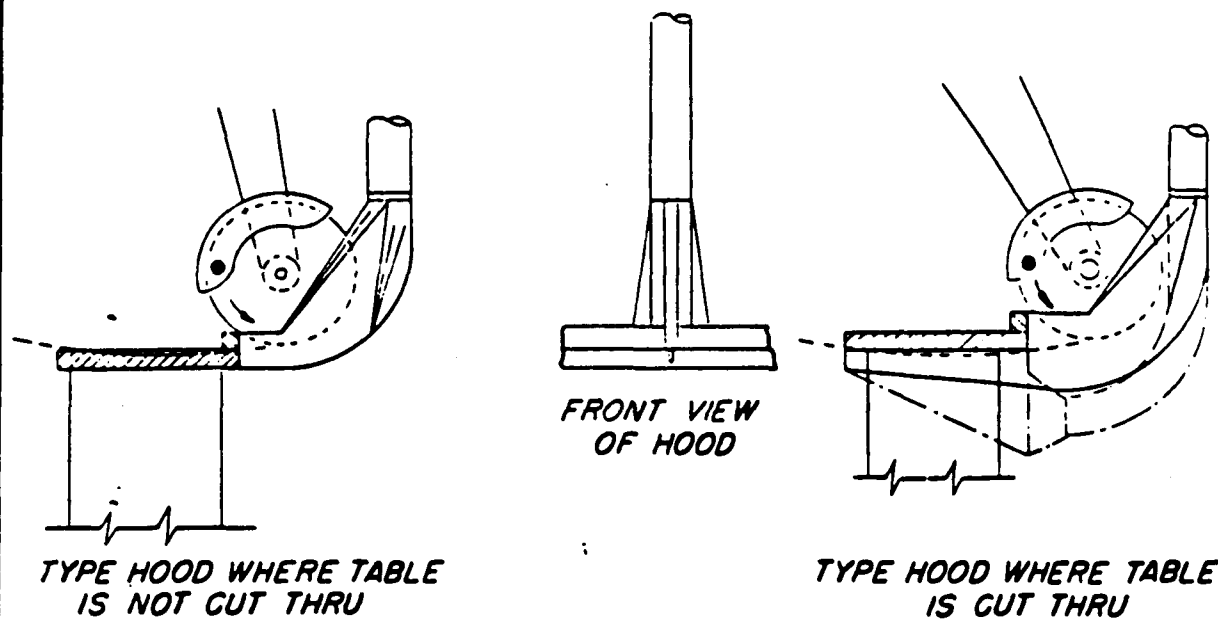
Entry loss = 1.0 slot VP + 0.25 duct VP

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TABLE SAW

DATE 1-64

VS-708



Saw diameter, inches	Exhaust volume, cfm
Up to 20 incl.	350
over 20	440

Duct velocity = 3500 fpm

Entry loss = 1.78 slot VP + 0.25 duct VP

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SWING SAWS

DATE

1-64

VS-707