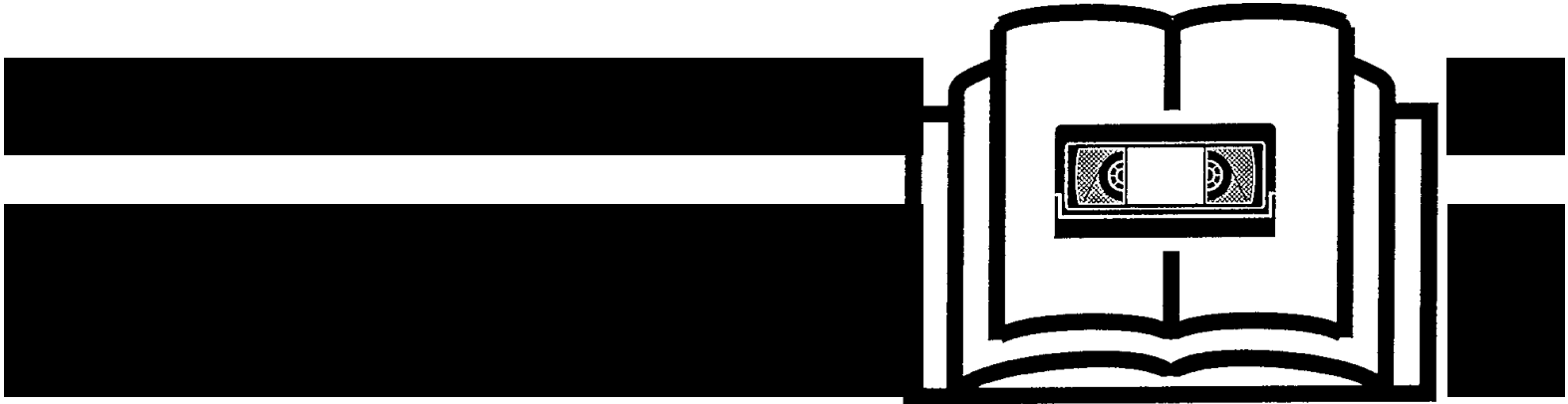


Vermeer

Tub Grinder



Operation and Safety Video Guidebook

VGJA02-2r2
Revised March, 2015
ORDER NO. 105400-T39

Introduction

This guidebook has been developed to supplement the operation and safety video for Vermeer Tub Grinders. The video and guidebook are one part of a complete set of materials intended to present basic information about safe and productive use of Vermeer Tub Grinders. The video and guidebook are not intended to be a comprehensive course on Tub Grinder operations and safety. Vermeer presents this material only as a reference and guide. Read and study your Tub Grinder Operator's Manual for more details on operations and safety practices.

It is important that everyone who operates or works around the Tub Grinder see the Operation and Safety video and work through this guidebook. Vermeer Manufacturing Company gives you permission to reproduce this guidebook as necessary to inform other workers. Additional copies are also available from your Vermeer dealer.

Be aware that this material is not intended to license or certify any person, nor does registration of attendance or completion of these materials imply that a person is skilled or competent as a Tub Grinder operator.

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Tub Grinder Operations Video Guidebook

INTRODUCTION:

At the end of each video section, the narrator will ask you to stop the tape and do the corresponding section in the Guidebook. You will find those sections following this introduction. The questions will reinforce ideas and information presented in the video.

For most questions, more than one answer is appropriate. Check as many items as necessary to complete the question correctly.

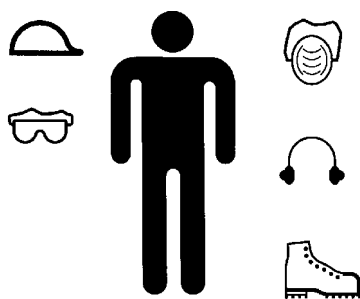
The correct answers are found at the end of each section.

Section I - Site Preparation



1. Vermeer has provided a number of instructional items to help you operate your Tub Grinder safely and efficiently. Check all the items you are aware of:

- ☐ Video
- ☐ This Guidebook
- ☐ Operator's Manual
- ☐ Maintenance Manual
- ☐ Decals to advise and warn
- ☐ Start-up Training by a Vermeer dealer
- ☐ Tub Grinder Specialist



2. All Tub Grinder workers are required to wear specified personal protective equipment. That equipment is:

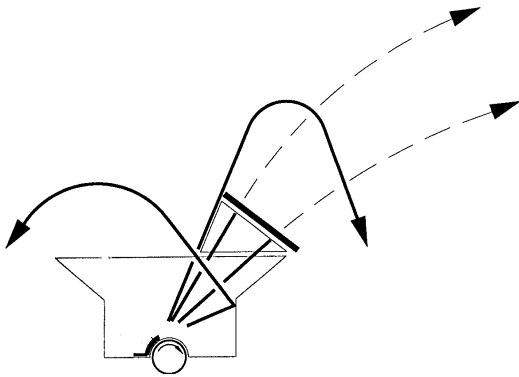
- ☐ Long-sleeved shirt
- ☐ Hard hat
- ☐ Safety glasses
- ☐ Gloves
- ☐ Protective footwear
- ☐ Respirator (in dusty conditions)
- ☐ Hearing protection

Section I - Site Preparation



3. The Tub Grinder is intended to grind:

- ☐ Non-organic material
- ☐ Organic material



4. Vermeer Tub Grinders have a Thrown Object Restraint system, which reduces the amount of thrown objects and reduces the area objects are thrown. The two primary parts of the system are:

- ☐ Tub safety support
- ☐ Tub cover
- ☐ Radio remote
- ☐ Rotor deflector



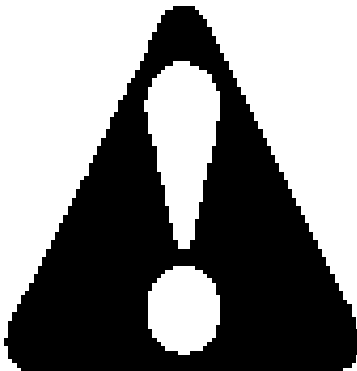
5. Some materials are strictly prohibited for grinding. Mark which materials below are Prohibited Material.

- ☐ Nails
- ☐ Pressurized Containers
- ☐ Explosives
- ☐ Small Gravel
- ☐ Tires
- ☐ Toxic Chemicals
- ☐ Containers with Flammable Liquids or Gases
- ☐ Heavy Solid Steel



6. Mark which materials are acceptable in limited quantities.

- ☐ Plastic
- ☐ Masonry
- ☐ Small Stones
- ☐ Light Sheet Metal
- ☐ Glass



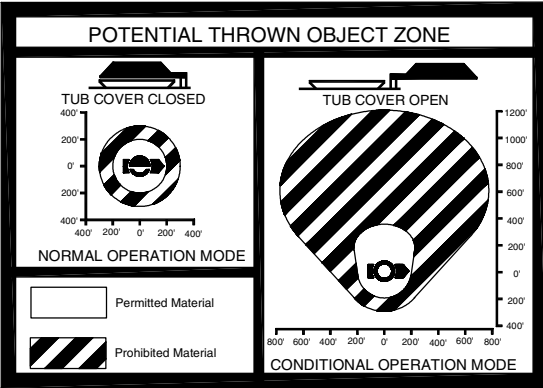
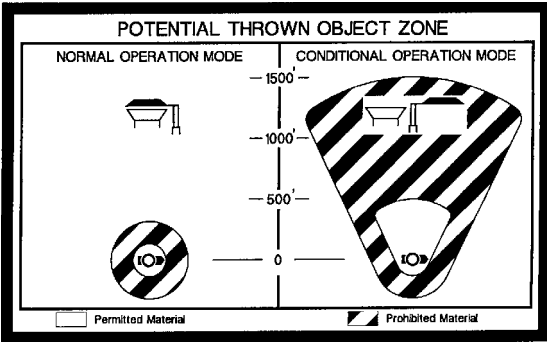
7. The items in question 6 are acceptable to grind only when three of the following conditions are present. Mark the three conditions:

- ☐ When there is only a small quantity of them.
- ☐ When they are small.
- ☐ When the material pile is mostly organic, but has only a small amount of these materials, and it is impractical to remove them completely.
- ☐ When the hammers and teeth are in good condition.



8. What kind of material is permitted:

- ☐ Paper
- ☐ Pallets
- ☐ Brush
- ☐ Logs
- ☐ Stumps
- ☐ Christmas Trees



9. With the Thrown Object Restraint System, there are four different thrown object zones. What is the shortest thrown object zone distance for the following Tub Grinders?

- ☐ 100 feet
- ☐ 300 feet
- ☐ 50 feet
- ☐ 1500 feet

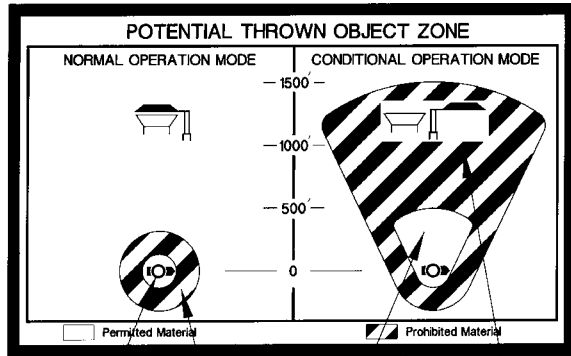
A = TG400A/TG525

- ☐ 375 feet
- ☐ 200 feet
- ☐ 1200 feet
- ☐ 300 feet

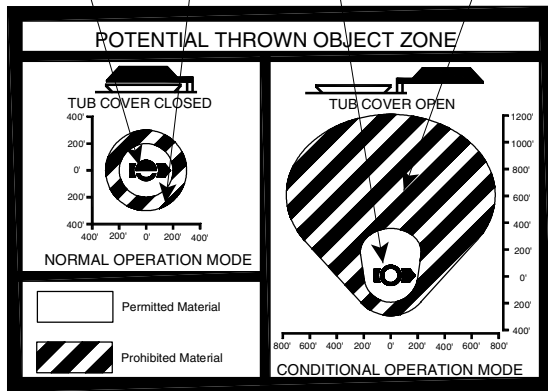
B = TG800

Section I - Site Preparation

TG400A/TG525



A B C D

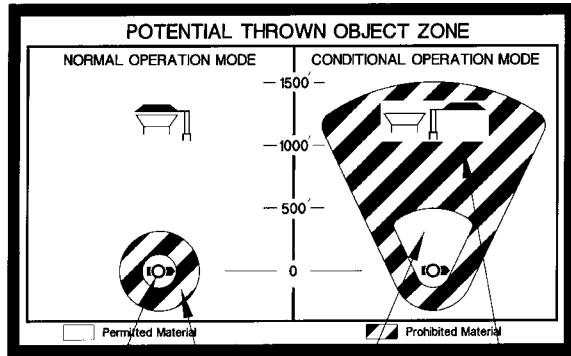


TG800

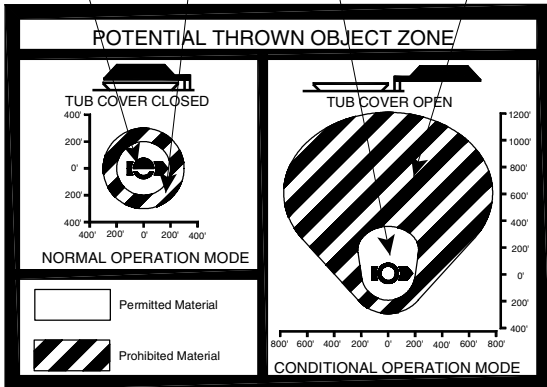
10. On the left, four different thrown object zones are labeled A, B, C, D. For which conditions below is Zone B appropriate.

- ☐ Tub cover open; grinding permitted materials.
- ☐ Tub cover closed; grinding permitted material.
- ☐ Tub cover open; material pile is mostly brush, but has some gravel.
- ☐ Tub cover closed; material pile is mostly pallets, but has some nails and bolts.

TG400A/TG525



A B C D



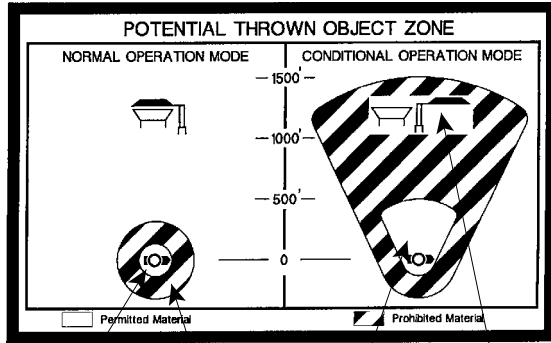
TG800

11. On the lines below, mark which zone, A, B, C or D, you would choose if grinding the given material.

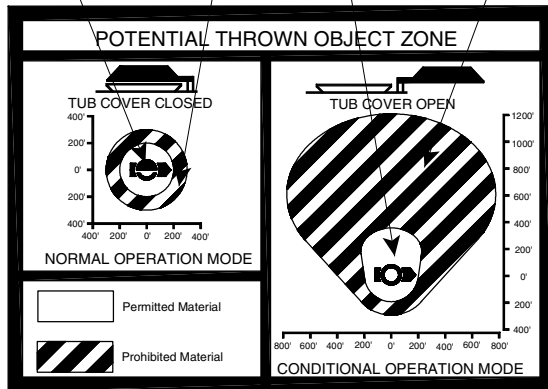
- ___ Christmas trees with all stands and ornaments removed
- ___ Clean wood pallets
- ___ Shipping crates with bolts and steel straps
- ___ Land clearing debris
- ___ Leaves
- ___ Light brush and limbs

Section I - Site Preparation

TG400A/TG525



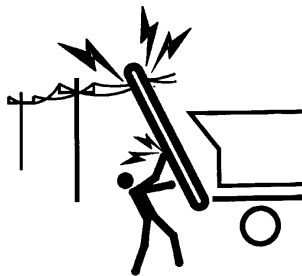
A B C D



TG800

12. A Tub Grinder operator is grinding large tree stumps. He suspects there is prohibited material included in the pile. With the Tub Cover closed, he is finding it hard to load the stumps. Can he open the Tub Cover and grind without it?

- ☐ No.
- ☐ Yes, because large stumps will probably damage the Tub Cover.
- ☐ Yes, because large stumps will help contain any ejected objects.
- ☐ Yes, if the clear area around the machine matches Zone D.

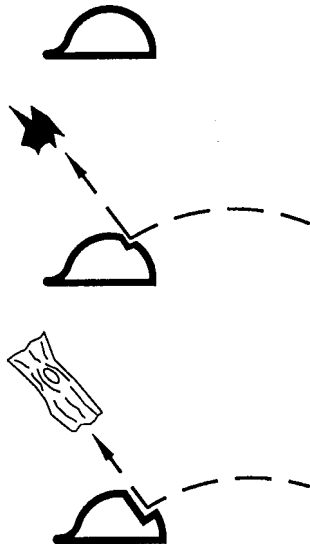


13. As you pull onto a new job site, you must evaluate the conditions and make decisions about where and how to set-up the machine. These decisions will ultimately affect the overall safety conditions on the site. Mark the important considerations:

- ☐ Check for overhead electric power lines.
- ☐ Position the Tub Grinder as close to the road entrance as possible.
- ☐ Check distances to traveled streets, sidewalks, houses, buildings, playgrounds - in order to determine your potential thrown object zone.
- ☐ Check for a firm, level area to position the machine.
- ☐ Position the machine so that the sun will not be in your eyes during operation.



14. What means do you have to keep unauthorized people a safe distance from the work area?
- ☐ Put warning cones at the boundary of the thrown object zone - especially where people and vehicles are most likely to approach
 - ☐ If people move into the thrown object zone despite the cones - tell them personally that they can be injured or killed by ejected material, and instruct them to stay in a designated protected area.
 - ☐ Give them a hard hat and safety glasses.
 - ☐ Do Nothing.



15. T or F Whenever you have a hard hat on you can move around freely inside the Thrown object zone.
16. T or F A hard hat will always protect you from objects that the Tub Grinder can eject.
17. T or F The Tub Grinder can eject material weighing more than 200 lb.
18. T or F During grinding, all workers must be in one of the designated protected areas.

Section I - Site Preparation

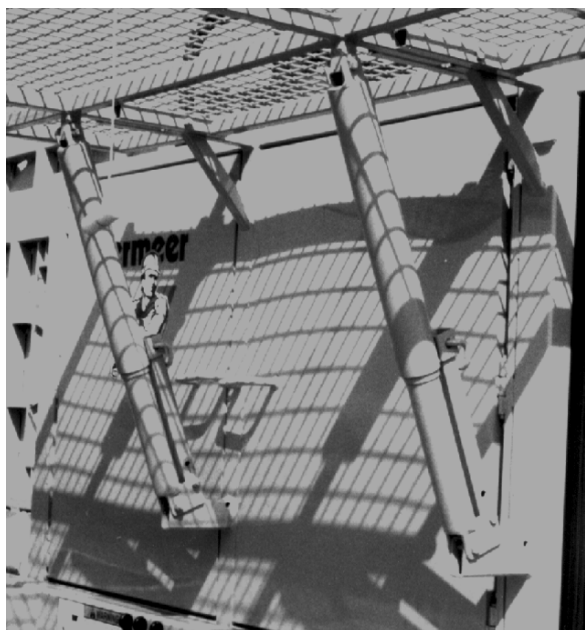
Section I - Answers

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9A.	<input checked="" type="checkbox"/>
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9B.	<input type="checkbox"/>
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10.	<input type="checkbox"/>
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11.	A
	A
	B
	B
	A
	A
12.	<input type="checkbox"/>
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13.	<input checked="" type="checkbox"/>
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14.	<input checked="" type="checkbox"/>
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	<input type="checkbox"/>
15.	F
16.	F
17.	T
18.	T

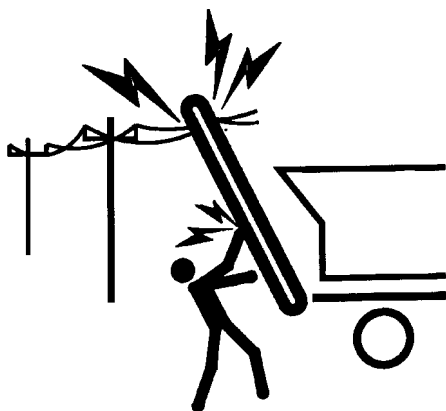
Section I - Site Preparation

Now restart the video to view Section II.

Section II - Machine Setup



1. It is important to raise and secure the Falling Object Canopy over the operator's console area because:
 - ☐ It will protect an operator standing at the controls from serious injury due to falling objects.
 - ☐ It will shade the console area.
 - ☐ The engine will not start with the canopy down.
 - ☐ It provides a guard rail for the top platform.



2. Before unfolding the conveyor:
 - ☐ Check for power lines that may be too near the conveyor.
 - ☐ Be sure workers are out of the way.
 - ☐ Check for straight tracking of the belt.



3. The best way to assemble the tub flares for work is to:
- ☐ Lift the flares in place with a crane.
 - ☐ Fully raise the tub and bolt the flares in place from the ground.
 - ☐ Stand on the Tub platform to pull the flares into place and bolt them.
 - ☐ Use a long stepladder.
 - ☐ Use the grapple.

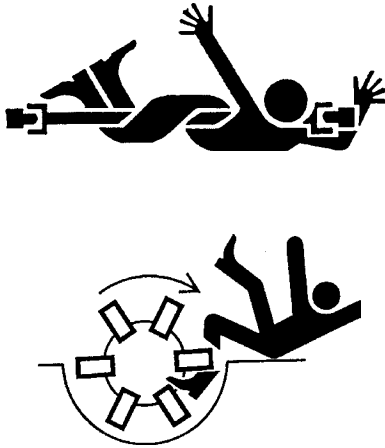


4. T or F When working under the tub table, always lift it to the fully open position.

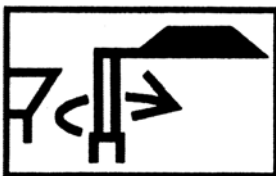
Section II - Machine Set Up



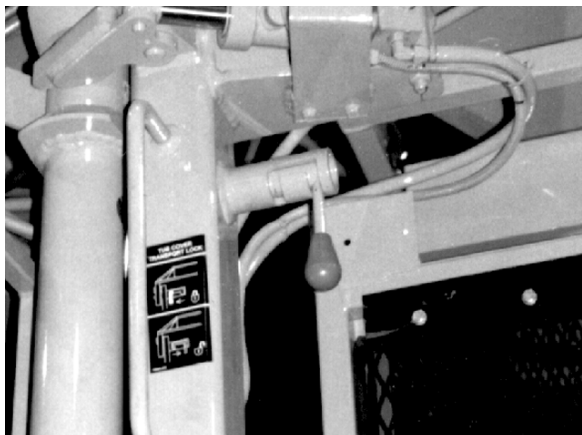
5. While the tub is raised, it is convenient to:
- ☐ Check the hammers and teeth for wear.
 - ☐ Clean off the frame rails so that the tub can seat tightly when it is lowered later.
 - ☐ Check screen size and change them if necessary.
 - ☐ Grease hammermill if necessary.
 - ☐ Inspect driveline, hoses and wiring for wear.



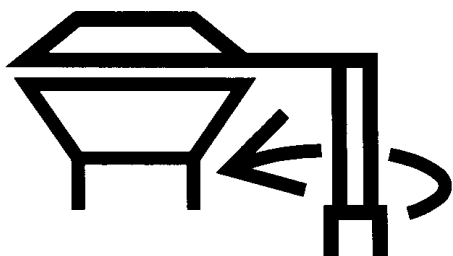
6. Never engage the hammermill if the tub is raised because:
- ☐ A worker could become entangled in the driveline.
 - ☐ A worker could be injured or killed by contacting the rotating hammers.
 - ☐ You may get hit by material ejecting out of the exposed hammermill.
 - ☐ The hammers may dislodge the screens and fling them out.



- 7A. T or F The TG800 Tub Cover must be fully **closed** before lifting the tub table.
- 7B. T or F The TG400A/TG525 Tub Cover must be fully **open** before lifting the tub table.



8. Before rotating the TG400A/TG525 Tub Cover into the closed position:
- ☐ Release mechanical transport lock.
 - ☐ Open hydraulic Tub Cover lock.
 - ☐ Check for clearance to overhead power lines.
 - ☐ Clean the frame rails.
 - ☐ Test the indicator lights and buzzer.



9. Normal operation is:
- ☐ with Tub Cover open (in transport position).
 - ☐ with Tub Cover closed.



10. It is important to lock the Tub Cover in the closed position because:
- ☐ Material you grind may force it open inadvertently.
 - ☐ Locking it will help prevent damage to the Tub Cover mechanism.
 - ☐ Locking the Tub Cover will cancel the warning buzzer.
 - ☐ To prevent vandalism.



11. Before raising the TG800 tub table, which conditions must exist:

- ☐ The engine speed is below 1000 rpm.
- ☐ The Tub Cover is fully open.
- ☐ The rotor assembly is disengaged and has stopped turning.
- ☐ The tub rotation is stopped.
- ☐ The conveyors are turned off.

Section II - Machine Setup

Section II - Answers

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9.	<input type="checkbox"/> <input checked="" type="checkbox"/>	10.	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	11.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>									

Section II - Machine Setup

Now restart the video to view Section IV

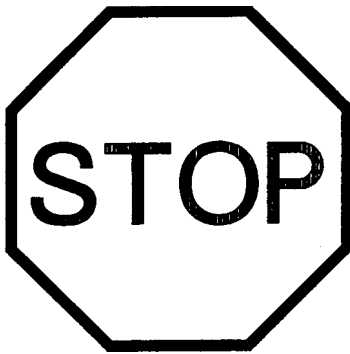
Section III - Grinding Operations

ROTOR
TURNING + TUB
COVER = ALARM



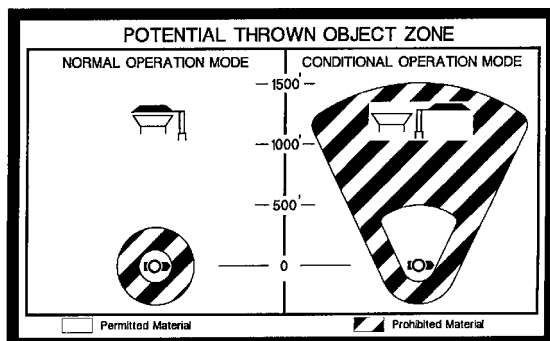
1. If you engage the clutch to start the rotor and the buzzer sounds, it reminds you that:

- ☐ The clutch is slipping.
- ☐ The tub is raised.
- ☐ The tub cover is open.
- ☐ The engine is lugging down.



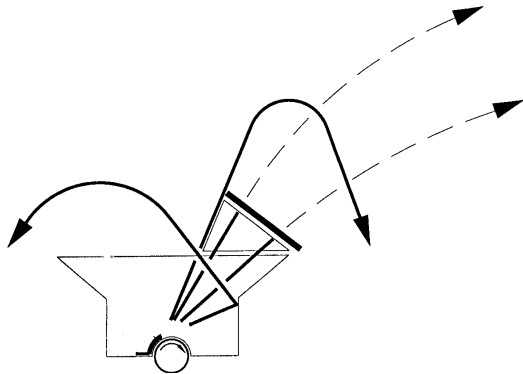
2. During grinding, the operator must continually be alert to prohibited material entering the tub. The best thing to do if you spot some prohibited material going in the tub is to:

- ☐ Push the emergency stop button.
- ☐ Shout a warning to everyone.
- ☐ Honk the horn.
- ☐ Stop the tub rotation.



3. The designated protected areas are:

- ☐ Outside the boundary of the Thrown object zone.
- ☐ Inside the Optional Loader Cab.
- ☐ At the Operator's console under the Falling Object Canopy.
- ☐ Inside an enclosed cab of a front end loader or excavator.
- ☐ On the catwalks of the machine.



4. Objects will be thrown out of the tub most frequently when:

- ☐ Objects are hard.
- ☐ The tub cover is open.
- ☐ The tub is nearly empty.
- ☐ The hammermill is at full RPM.
- ☐ The temperature is high.



5. All the following procedures, except one, reduce the amount of material thrown out of the tub. Mark the one exception.

- ☐ Put pre-ground material into the empty tub to start with.
- ☐ Keep the tub moderately full.
- ☐ Mix the material you load alternating between using coarse and finer material.
- ☐ Keep the tub cover closed.
- ☐ Keep the tub grinder clean.



6. Occasionally during operation, the operator must move to the ground control station to adjust controls. Which of the following precautions are important to follow:

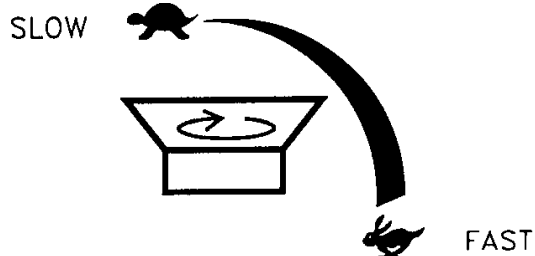
- ☐ Wear a hard hat.
- ☐ Wear safety glasses.
- ☐ Wear protective footwear.
- ☐ Stop the tub rotation.
- ☐ Have the tub as full as practical.
- ☐ Be alert to falling objects.
- ☐ Do not linger in an unprotected area.



7. You can tell material is bridged inside the tub when:
- ☐ There is material in the tub, but no material is coming off the discharge conveyor.
 - ☐ There is material in the tub, but the engine isn't loading down.
 - ☐ Material pile in the tub doesn't go down even though the tub is rotating.



8. To dislodge bridged material:
- ☐ Manually reverse and forward the tub rotation to "shake" the material.
 - ☐ Pick up and reposition the material with the optional grapple loader.
 - ☐ Stop the hammermill and raise the tub to empty it.
 - ☐ Pile more material on top to try to break through the bridge.



9. To reduce bridging:
- ☐ Don't overfill the tub.
 - ☐ Reduce material length.
 - ☐ Alternate between types of material and quantity of material.
 - ☐ Change tub rotation speed.

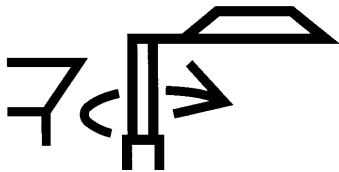


10. When grinding with the Tub Cover closed, material may jam underneath the Cover and stop the tub rotation.

To clear the jam, first try:

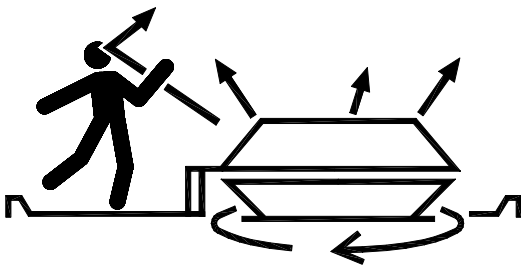
- ☐ Reaching in with the grapple to reposition the material.
- ☐ Reverse tub rotation.
- ☐ Momentarily opening the Tub Cover.

ROTATE
OPEN



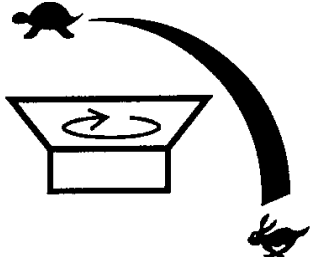
11. When material has jammed against the Cover and stopped tub rotation, the last procedure to try is:

- ☐ Reaching in with the grapple to reposition the material.
- ☐ Reverse tub rotation.
- ☐ Momentarily opening the Tub Cover.



- 12A. T or F Never look into the tub when the rotor assembly is spinning and the tub is rotating.
- 12B. T or F Never attempt to manually dislodge material inside the tub when the rotor assembly is spinning or the tub is rotating.

SLOW



FAST

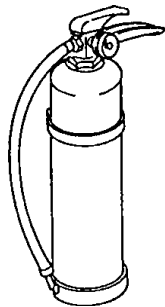
13. It is important to keep the tub moderately full to reduce the chance of ejected material. If you can't load material into the tub fast enough, you can:

- ☐ Stop the tub rotation occasionally to slow production.
- ☐ Improve job site setup to make material flow more efficiently.
- ☐ Slow the tub RPM.



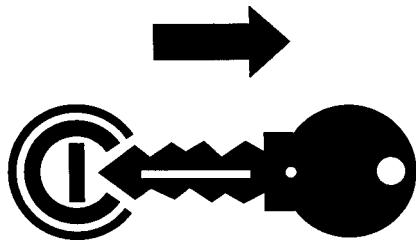
14. If material in the tub heats up and starts smoking, reduce the chance of a fire by:

- ☐ Load more material into the tub.
- ☐ Manually jog the tub rotation to move material away from the rotor assembly.
- ☐ Raise the tub table and dump material.
- ☐ Spray water on material in tub with a garden hose.



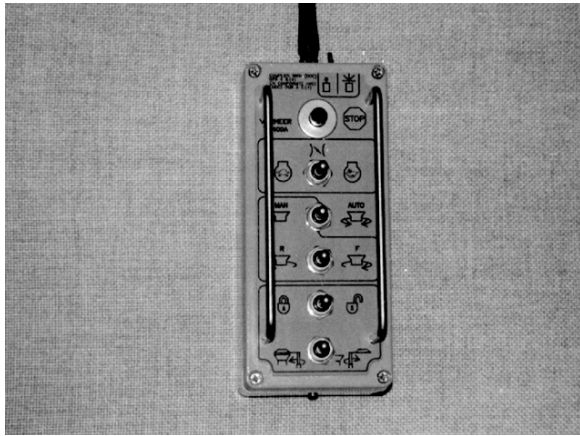
15. Smoldering material may catch fire hours later. The best ways to prevent tub grinder fires are to:

- ☐ Keep entire machine as clean of flammable material as possible - especially around the engine exhaust area.
- ☐ When the tub is loaded, avoid prolonged operation of the hammermill while the tub rotation is stopped.
- ☐ Move conveyor discharge piles away from machine at the end of the day.
- ☐ Ensure the fire extinguisher is charged and accessible.



16. If the rotor assembly or screens become plugged, before clearing plug you should (Rank from 1 - 5).

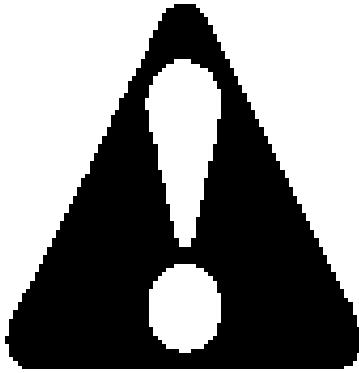
- ___ Disengage rotor assembly and allow it to stop turning.
- ___ Fully raise the tub table.
- ___ Stop the tub rotation and reduce engine speed to idle.
- ___ Shut off engine and remove key.
- ___ Turn off conveyors.



17. If using a front end loader to put material into the tub:

- ☐ The bucket must have a reach height higher than the top of the tub.
- ☐ It must have an enclosed cab to protect the operator from ejected objects.
- ☐ Have a remote control in the cab in order to operate selected Tub Grinder functions, and stop the Tub Grinder when necessary.
- ☐ You must keep the doors and windows closed to prevent material from hitting you.
- ☐ Turn on the radio to drown out the Tub Grinder noise.

Section III - Grinding Operations



18. Before leaving the machine for the day:

- ☐ Remove all loose material from around the engine exhaust stack so that it won't smolder and burn.
- ☐ Store the optional grapple on the ground or in its cradle.
- ☐ Lock up optional loader cab and the ground operator console.
- ☐ Store your hard hats.
- ☐ Turn off and store the remote control.
- ☐ Switch the battery disconnect to "off".

Section III - Grinding Operations

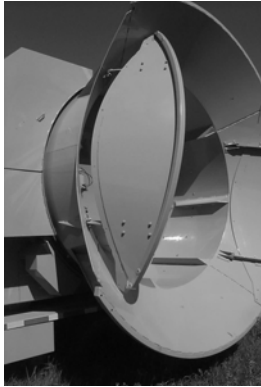
Section III - Answers

1. <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	2. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	3. <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	4. <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	5. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6. <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	7. <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
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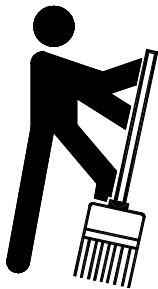
Section III - Grinding Operations

Now restart the video to view Section IV

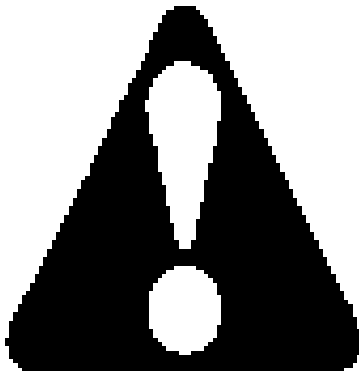
Section IV - Preparation for Transport



1. Folding and securing the tub flares is required to:
 - ☐ Prevent rotation of the tub.
 - ☐ Reduce the overall machine width for legal highway use.
 - ☐ Aid in cleaning material out of the tub.



2. Remove debris from the entire machine before moving onto a public highway:
 - ☐ Reduces the chances of a fire occurring around hot brakes.
 - ☐ Allows the air brake chambers and brake linkage to operate freely.
 - ☐ Improves visibility for the truck driver.
 - ☐ Reduces the possibility of debris falling onto the highway or striking a person or another vehicle.



3. Which of the following items are required before transporting the Tub Grinder on the highway:

- ☐ Rotate Tub Cover forward and lock.
- ☐ Drain hydraulic and fuel tanks.
- ☐ Raise all outriggers and stabilizers.
- ☐ Repair and repaint damaged panels.
- ☐ Stow safety cones, hard hats, extra parts, and remote control unit in storage box.
- ☐ Lower and secure falling object canopy.
- ☐ Fully fold up discharge conveyor.
- ☐ Raise all folding and pull down steps.

Section IV - Preparation for Transport

Section IV - Answers

1.

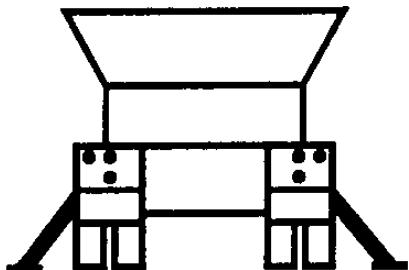
2.

3.

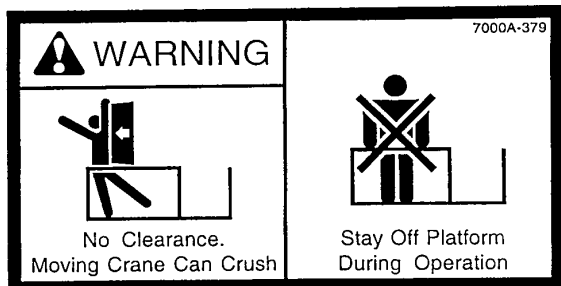
Section IV - Preparation for Transport

Now restart the video to view Section V

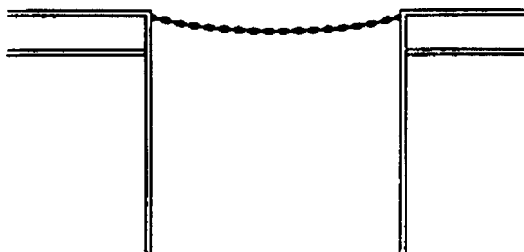
Section V - Optional Loader Set Up



1. Before using the grapple loader it is important to lower the loader stabilizers because:
 - ☐ They prevent undue stress on the landing gear of unit during loader operation.
 - ☐ They provide a wider “foot print” to keep the loader stable during long reaches and heavy loads.
 - ☐ The Operator’s Manual says to.
 - ☐ They will reduce the chance of the Tub Grinder frame twisting and bending.



2. T or F There are catwalk railings on two levels of the Tub Grinder, which need to be raised and secured during machine setup.



3. It is important to fasten the red chains on each side of the lower catwalk access area because:
 - ☐ It will prevent workers from falling off.
 - ☐ It will warn workers not to climb onto the catwalk during loader operation.
 - ☐ The chains help support and strengthen the catwalk handrails.



4. When you operate the loader, the cab door must be closed in order to:

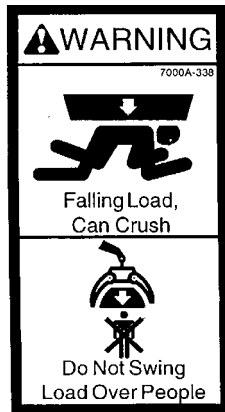
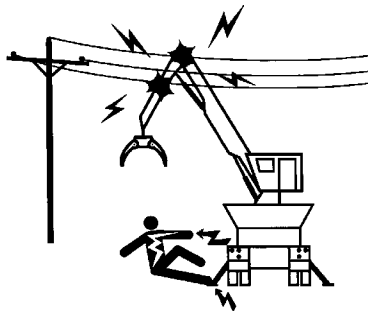
- ☐ Keep dust out.
- ☐ Keep ejected objects from hitting you.
- ☐ Allow the loader to rotate.
- ☐ Keep the air conditioning from overheating.



5. The only correct way for a loader operator to get a co-worker's attention is to:

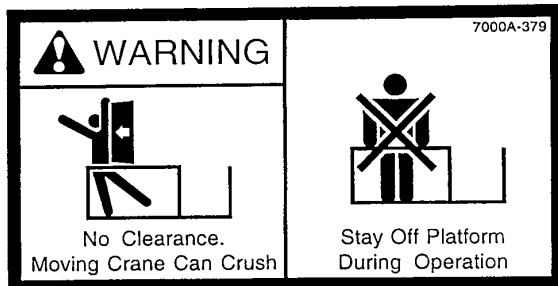
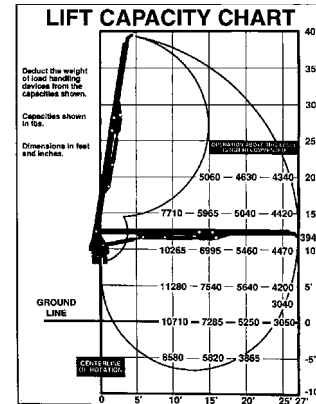
- ☐ Open the door and yell.
- ☐ Push out the emergency window and yell.
- ☐ Rev up the engine several times.
- ☐ Sound the horn to signal the co-worker.

Section V - Optional Loader Set Up



6. Before operating the loader boom and stick, you should always:

- ☐ Check for proper clearance with power lines.
- ☐ Be familiar with the joystick and foot pedal controls.
- ☐ Check to make sure co-workers aren't within your reach area or under a load.
- ☐ Review the loader lift chart located inside the cab.



7. Before rotating the loader, you should always:

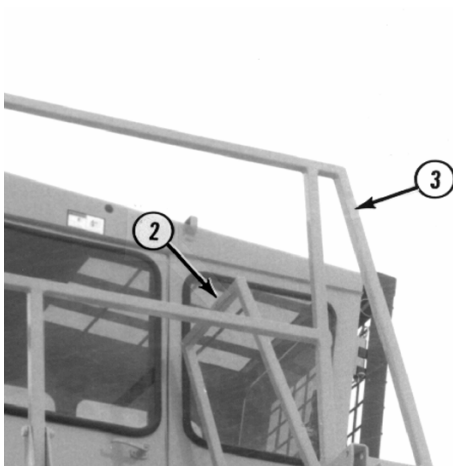
- ☐ Be sure no one is on the loader platforms.
- ☐ Be sure red safety chains are across each side of the lower catwalk access platform opening.
- ☐ Ensure that grapple and loader booms will clear tub and other machine parts.

Section V - Optional Loader Setup



8. Mark which steps are required when preparing the optional loader for transporting:

- ☐ Remove and store cab locking bolts **(1)**.
- ☐ Remove emergency exit cab window.
- ☐ Lower and secure catwalk handrails **(2) and (3)**.
- ☐ Line up and stow boom and grapple in cradle.
- ☐ Tilt down cab after lowering boom catwalk handrail.



Section V - Optional Loader Set Up

Section V - Answers

1.	<input checked="" type="checkbox"/>	2.	T	3.	<input type="checkbox"/>	4.	<input checked="" type="checkbox"/>	5.	<input type="checkbox"/>	6.	<input checked="" type="checkbox"/>	7.	<input checked="" type="checkbox"/>
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Section V - Optional Loader Set Up

