



# Instructions - Model 150 HD

Upon receiving your machine, inspect it carefully to ensure it has not been damaged in shipment. If there are signs of damage, note the damages and notify the delivering carrier immediately.

## MACHINE SETUP

- To ensure proper operation, **THE MACHINE MUST BE FASTENED TO THE FLOOR OR SOMETHING HEAVY**. If installed on a trailer, the trailer must be equipped with leveling jacks to level the machine and raise the trailer off the trailer springs.
- The motor can be wired for 110v or 220v as you require. The motor should be wired in a counter clockwise rotation. When standing on the side with the motor, the fan paddles should be running counter clockwise. A wiring diagram can be found on the outside (or inside) of the motor connection box.
- Ensure all the bolts holding the machine together are tight, particularly the frame. The oak frame will continue to dry out over a period of a year or so. As it does, the bolts may loosen up. Retighten them as is required. **DO NOT OVER TIGHTEN THE BOLTS ON THE SHAKER ARMS AND ECCENTRIC MECHANISMS**. The bolts should be just tight enough so that you can still spin the washers.
- When changing screens, loosen the nuts on the threaded rod to remove the screens. After inserting new screens be sure to tighten the nuts on the threaded rod. Screens should be snug. Do not over tighten as this may damage the screen. Handle the screens with care as the edges can be **sharp**.



### Diagonal Braces

We have diagonal braces for each side.

For shipping purposes, we have detached the braces and strapped them to the frame. The bolts are in the back 2x4 upright.

Bolt the braces to the machine, then bolt the braces either to the floor or heavy object.



## OPERATING INSTRUCTIONS

The most important consideration when operating this machine is to have the correct screens for the cleaning process.

- Top Screen: If the holes are too small, you will lose all your good seed off the top
- Top Screen: If the holes too large, you will allow too much trash to go through
- Bottom Screen: If the holes are too small, not enough fine material or broken seed will get through
- Bottom Screen: If the holes are too large you will lose good seed or it will clog up

The screens are coated with oil in the perforating process and we leave it on to prevent rust. You should remove that oil with kerosene or other solvents. Otherwise the seed may not slide down the screens properly.

Experiment with the adjustable sheaves until the machine is conveying the seed along at the proper rate and the correct velocity of air is achieved. The machine can be sped up by closing the drive pulley, and the fan can be sped up by opening the fan shaft sheave. Reverse the process to slow the machine down.

If less air volume is desired, you can prop open the rear fan gate. Switching the pulleys and putting the small one on the main shaft and the big one on the fan shaft will slow the air flow down considerably. In some cases, while working with very small or light seeds, it may be necessary to use even less air; in that case you can remove every other fan blade.

The machine **shakes aggressively**, check the frame bolts regularly to ensure they are tight. The oak frame will continue to dry out and possibly shrink for about a year, after some time, the bolts should remain tight.

\*Grease the (4) bearings frequently\*

Occasionally check the bronze bushings. These bushings are located throughout the drive mechanism. We have replacement bushings available or they can be purchased at most hardware stores or implement dealers.

If you have any questions, please contact us