

SECTION THREE OPERATING INSTRUCTIONS

TRUCK-MOUNTED CONVEYORS

FBR-FIBERGLASS SERIES TURNTABLES- RTH 3000, RTH 4000, RTH 6000

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Cleasby Conveyors (Rev. 04/28/00)

OPERATING FEATURES

These operating instructions apply to the RTH series of fully hydraulically-operated turntables. The FBR Fiberglass constructed conveyors are used with the RTH turntables.

Before attempting to operate the conveyor/turntable, READ and familiarize yourself with the "General Instructions Section" of this manual.

The RTH series turntable comes with a full range of hydraulic functions (see Fig. 3-1).

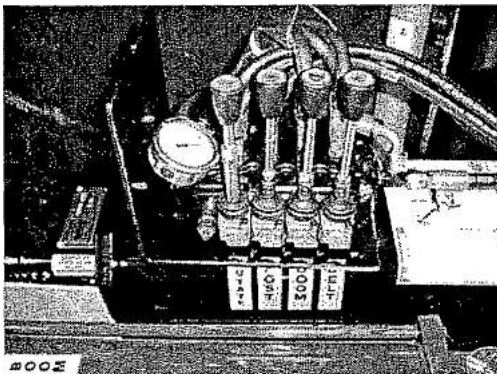


Fig. 3-1 Hydraulic Controls Mounted on Center Post

There are four (4) controls which govern the flow of hydraulic fluid in support of various operating functions:

- Conveyor Lift
- Conveyor Rotation
- Belt Power
- Raising and Lowering Post

The standard hydraulic system (CM) provides employs a direct drive pump and reservoir that the installer connects to the truck transmission by a PTO.

NOTICE

Never drive the truck or race the engine while the PTO is engaged. The pump operates at the correct speed, and produces sufficient oil flow when the truck engine is idling. Driving the truck or racing the motor may damage the pump.

Hydraulic fluid lines connect the pump to valves on the turntable post. As load is placed on the system, the pressure correspondingly increases to accommodate the resistance. The factory has pre-set the pressure relief valves in the system to provide enough power to operate the unit at full capacity while keeping the pressure within safe operating limits. If the unit does not operate properly with the pre-set pressures, the system either: (1.) is being incorrectly operated; or (2.) there is a problem in the hydraulic system. Advise your maintenance for correction. The hydraulic system also incorporates a variety of flow restrictors and check valves. Never operate the turntable and conveyor if any of these safety control devices has been removed or is missing.

OPERATING PROCEDURES

Observe the following procedures while operating the conveyor:

Positioning Conveyor for Operation

- 1.) Select and secure a safe operation site (See General Instructions). Set up a SAFETY ZONE around the truck (See General Instructions, Section One, pp 1- 3 through 1-4 and Figure 1-21) with ropes, barricades or other suitable equipment.
- 2.) Review the Warning and Operating Instructions contained in this manual and the Warning Labels (Stickers) attached to the conveyor and turntable. Review the Instruction Manual and SAFETY VIDEO provided (if missing, call (CM) at (800) 453-2446 for a free replacement. If you should have any questions, get help as needed before starting operation.
- 3.) Make sure you are familiar with the positioning of the hydraulic function control valves and that all the valves are in the "off" or "neutral" position before engaging the PTO.
- 4.) Block the wheels. Be sure the truck gears are in neutral, and the parking brakes are locked before engaging the PTO.
- 5.) Unhook the chains supporting the stabilizer legs. Push down on the rear control handle to lower the right side stabilizer. Continue to lower the stabilizer until the truck rises slightly. Push down on the front control handle to lower the left stabilizer until the truck bed is level. If the ground is soft, place planks or blocks under the stabilizer feet

for greater stability. Extend the stabilizers only enough to stabilize the truck. Do not raise the truck wheels off the ground.

- 6.) Unfasten the conveyor from its resting position, and slowly raise the conveyor to a height well above the roof upon which you intend to rest it (the maximum recommended inclination is an angle not to exceed 70 degrees from the horizontal).
- 7.) For RTH series turntables, engage the rotation function lever, specially marked on most units, and rotate the conveyor slowly until the nose is properly positioned. The conveyor may then be lowered to come to rest on the roof.
- 8.) Adjust the height of the post to place the lower end of the conveyor at a convenient loading height.
- 9.) Support the nose of the conveyor on the roof with the support foot before stating the conveyor.

CAUTION

Never operate the conveyor belt while lowering or rotating the conveyor.

- 10.) Start the conveyor belt only after the conveyor is resting solidly on the roof, alerting the worker(s) on the roof.
- 11.) The valves that control the turntable functions are spring-loaded "return to center" devices with a forward and reverse function. They should shutoff automatically when released. If they do not, inspect and repair them to restore automatic centering.

Transporting Materials to Roof

- 2.) The valve controlling the conveyor belt is a "detent" type that stays in position once it is set. It also has a forward and reverse function.
- 3.) FBR belt-type conveyors have a control valve at the nose end allowing the person receiving materials coming off of the conveyor to stop or start the belt when necessary (see Figure 3-2).
- 4.) The valves are set so that moving the valve handles toward the conveyor lifting cylinder mounted on the turntable
 - post, engages the "forward" or "up" function. The rotation on RTH series turntables is intended to be in the direction that you move the control handle. Test the movement of all components prior to field use. If the valve motion and component direction are inconsistent, make the necessary corrections to rectify.

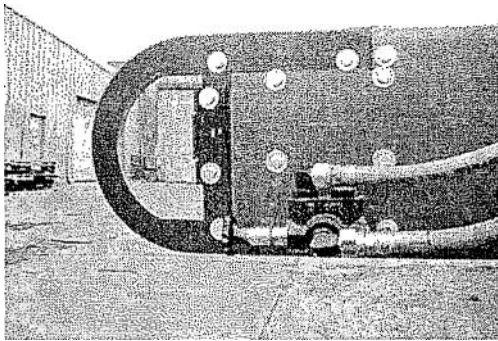


Fig. 3-2 Control valve at nose of FBR conveyor allows receiving person to stop and start belt.

- 5.) The cylinder inside the post on RTH series turntables permits the post to raise and lower to provide clearance for truck cargo among other reasons. It also raises and lowers the conveyor to a convenient height above the truck bed when loading the various materials on the conveyor.

The RTH-6000 raises higher than the RTH-4000 and so forth.

- 1.) The speed control permits the operator to control the amount of fluid flowing to the various functions. This is particularly useful in varying the speed with which the belt moves along the conveyor.

Observing Live Load Limits

Note and observe weight limits and load capacities for the conveyor. The conveyor has a weight limit/load capacity of one bundle per flight (vertical paddle) for shingles weighing up to 90 pounds per bundle; and one bundle for every other flight for shingles weighing over 90 pounds per bundle.

Returning Conveyor to Traveling Position

- 1.) After unloading, recheck and clear the **SAFETY ZONE** before moving the conveyor. Raise the conveyor boom high enough to clear the side of the building and the edge of the roof, or if possible, raise the conveyor to a height approaching maximum angle of rotation (70 degrees) and then slowly lower the conveyor into its traveling position over the truck cab. To avoid damage to the truck or conveyor boom, do not drop the conveyor. Secure the boom in place
- 2.) When the turntable is in its lowest position, the nose end of the conveyor may be too high to clear bridges. Thus, elevate the post to ensure that the conveyor is positioned parallel with the bed of the truck, prior to traveling.
- 3.) Disengage the PTO before moving the truck.