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Helpful Hints for Using KEITH® WALKING FLOOR® Unloading Systems

Below is a short list of operational procedures and helpful hints to ensure your KEITH® WALKING FLOOR® system provides years of good service.

1. The hydraulic pump and PTO system requires hydraulic pressure of 3000 PSI with a minimum of 30 gallons of oil per minute for proper operation.
2. The PTO/Pump system requires a pressure relief valve set at 2800 PSI.
3. End Dump truck PTO systems set at a maximum 2200 PSI hydraulic pressure will not operate a WALKING FLOOR system properly and could cause serious damage to the system.
4. The WALKING FLOOR system requires a minimum 40 gallon oil reservoir to ensure oil does not overheat during unloading and result in heat damage.
5. Properly installed, smaller oil reservoirs with coolers can be used.
6. A trailer equipped with a standard KEITH WALKING FLOOR drive is capable of unloading approximately 32 tons of material.
7. A trailer equipped with a heavy-duty KEITH WALKING FLOOR drive is capable of unloading up to 52 tons.
8. A trailer equipped with a KEITH WALKING FLOOR drive is capable of unloading most materials in 4 minutes or less, if the PTO/Pump is set up properly.
9. Unloading speed is a function of oil flow. With an oil flow of 30 GPM, the average unloading time is 6 to 7 minutes for a 45 ft/13.5 m trailer.
10. All WALKING FLOOR systems are designed for two way operation- loading or unloading material. A "Control Valve" controls the forward or reverse floor movement.
11. A partially opened or closed on/off Ball Valve will create heat damage and result in slower unload speeds. Open and close the on/off valve completely.
12. Heat damage will void the warranty on hydraulic components.
13. Always make sure back doors are open before engaging the WALKING FLOOR system.
14. Never walk on or stand in the way of the material while unloading.
15. Make sure quick couplers are fully connected.
16. Be sure the quick couplers are connected correctly (Pressure to Pressure-Return to Return).





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Troubleshooting Guide

The system will not load or unload?

- a. Is the PTO is engaged?
- b. Are the quick couplers fully connected?
- c. Is the On/Off Ball valve completely closed?
- d. Is the "Control Valve" in the "Unload" position?

If all of the above have been checked and unit will still not move, you will need to check pressure and flow from the pump to the trailer using a pressure gauge and flow meter.

In unload mode, the system unloads and then stops?

- a. Switching Valve is out of adjustment (refer to owner's manual on adjustment instructions).
- b. Pressure may be too low to move slats in the 1-2-3 mode (It takes more pressure to operate in the 1-2-3 mode than in the unload mode). Check hydraulic pressure at the pump.

What can I use my KEITH® *WALKING FLOOR*® Unloading System for?

- a. Most bulk material will unload very well. Please be sure your trailer and floor slats are properly designed for the products you are planning to move. Consult with a KEITH representative to answer your questions.
- b. General commodities including pallets. *WALKING FLOOR* systems have been used for many years to move palletized cargo. Pallets with protruding nails and knots will cause problems, but using carpet or cardboard under the pallets will help them move in an orderly fashion. Consult with KEITH personnel to ensure your best results.

For any questions regarding product application/uses please contact KEITH Mfg. Co.

Thank you

Mike Robinson
Sales Director

