

KEITH[®] WALKING FLOOR[®] Unloader

LP Series

LPIII Leak-Proof Nose Mount

KEITH[®] hydraulic operated WALKING FLOOR[®] unloader. Model #LPIII Drive available from KEITH Mfg. Co.; P.O. Box 1; Madras, OR 97741; USA; Phone: 541-475-3802 FAX: 541-475-2169

- A. **Drive Mechanism:** The hydraulic cylinder shafts must be attached to the frame with (4) 5/8" bolts and will remain stationary. The 2" x 8" cross drives are clamped directly to the hydraulic cylinder barrels. The cylinders on each cross drive must be independently removable and interchangeable.
- B. **Cross Drive Support:** The cross drives to be supported by UHMW strips on a support rail attached directly to the frame.
- C. **Hydraulic System:** (6) Cylinders with 80mm diameter bore, 1.771" OD x 1.125" ID 1045 induction hardened (50 Rc minimum and 10 RMS finish) piston rods with 6" stroke. Each unit of (2) cylinders is connected at the base of each cylinder. All hydraulic lines on the drive unit must be steel hydraulic tubing (no hoses). Each piston shall have (2) piston seals with heavy duty back up rings and a high strength wear ring. Each cylinder head shall have (2) loaded rod wipers, (1) high strength wear ring and one energized rod seal with heavy-duty backup ring.
- D. **Mounting:** Hydraulic drive mechanisms must be mounted in a Front Nose Mount frame, with water dam, for leak proof operation.
- E. **Flooring Extrusions:** Shall have 15 moving extrusions extruded from 6061-T6 aluminum, 3.125" wide, .250" thick with (2) .50" wide x .750" overall high ridges, model #2679 or 3.125" wide, .219" thick with (2) .50" wide x .594" overall high ridges, model #2145.
- F. **Floor Bolts:** Each floor extrusion shall be secured to the drive mechanism with a minimum of six bolts.
- G. **Sub-deck:** Shall be a solid interlocking, leak proof sub-deck .150" thick, model #2167. Moving extrusions are to have 24" wear strips attached to rear end of each slat.
- H. **Bearings:** Entire floor to be supported by #2146 bearing strips installed per manufacturer's recommendations.
- I. Hydraulic system shall be powered by a hydraulic pump driven off a PTO mounted on the truck tractor transmission. Minimum pump rating to be 30 GPM @ 3000 PSI. Truck mounted hydraulic unit shall be provided and installed by hauling contractor.