

1. SCOPE

- 1.1. This specification defines requirements for Conrail's 3/4, 1, 1 1/2, 2, 2 3/4 and 3 Ton manually lever operated chain hoist with Load Limit Warning Handle LLWH.

2. CODES AND STANDARDS

- 2.1. The hoist meets or exceeds the requirements listed herein.
- 2.2. ANSI/ASME B30.21 Manually Lever Operated Hoists
- 2.3. ASME HST-3M Performance Standard for Manually Lever
Operated Chain Hoists.
- 2.4. ANSI/ASME B30.10 Hooks

3. DESIGN

3.1. General

- 3.1.1. 3/4, 1, 1 1/2, 2, 2 3/4 and 3 U.S. Ton Capacities.
- 3.1.2. Each unit is individually load tested per ANSI/ASME B30.21 requirements and comes with test certificate.
- 3.1.3. Each unit bears unique serial number.
- 3.1.4. 2 year Warranty.

3.2. Mechanical

- 3.2.1. Transmission Gearing - Split load, double reduction spur gears. Machined and hardened for longer life.
- 3.2.2. Brake Friction Disc - spline coupled to Pinion Shaft.
- 3.2.3. Load Wheel - 4 pockets; heat treated machined forging. Features a stripper assembly that keeps the load wheel free of debris.
- 3.2.4. Load Chain – Nickel plated Grade 100 Alloy.
- 3.2.5. Lift - 5 feet.
- 3.2.6. Brake - Dry Weston type mechanical load brake with two brake pads, four braking surfaces, and two pawls. Brake pads are non-asbestos and resist humidity and moisture. Brake is totally enclosed for protection against impact, dirt, and moisture.

- 3.2.7. Hooks - Forged from alloy steel and designed to deform under over load conditions per ANSI/ASME B30.10. Equipped with hook latches at hook throat. Bottom hook swivels. Top hook swivels and pivots. Both top and bottom hooks have measurement nubs to facilitate inspection.
- 3.2.8. Hoist Body - Rugged steel housing. Sturdy double steel plate construction for load bearing.
- 3.2.9. Handle - Adjustable Load Limit Warning Handle or LLWH is accurate to +/-10% of load limit setting. Handle deflects 15° and registers a visual red signal to indicate that the load limit has been reached. Handle rotates 360° for speedier operation. Length is (Shown in 3.3.1 below) and recovery stroke is 15°. Handle is equipped with a rubber hand grip. Handle load limit setting is to be 100 to 120% of the rated capacity of the hoist.
- 3.2.10. Single Fall Load Chain
- 3.2.11. Chain Guides - Two contoured chain guides are tucked into the hoist body design out of the way and free from potential interferences.

3.3. Miscellaneous

3.3.1. Part Number and Specifications.

Cap. (Tons)	Product Code	Headroom C (in)	Std. Lift (ft)	Pull to Lift Load (lbs)	Handle Length (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Additional One Foot of Lift (lbs)
3/4	L5LB008-LWH-C	11.0	5	36	14.4	5.6 x 1	13	13	0.5
1	L5LB010-LWH-C	11.8		46		5.6 x 1	13	14	0.5
1 1/2	L5LB015-LWH-C	13.2		45		7.1 x 1	18	18	0.7
2	L5LB020-LWH-C	14.8		42		8.8 x 1	25	26	1.1
2 3/4	L5LB028-LWH-C	14.8		57		8.8 x 1	25	26	1.1
3	L5LB030-LWH-C	15.6		69	16.9	10.0 x 1	33	35	1.5

- 3.3.2. Cover plate for Load Limit Warning Handle adjustment fastened in a tamper-resistant manner using rivets to replace two of the four screws per 60732 drawing.
- 3.3.3. Marking - The Harrington label affixed to the handle shall be stamped with the letter "C" to designate Conrail per 60732 drawing.

GENERAL USE
EDOC0259
Rev 0
4/8/2003