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Model 410M-114 Heavy Duty Hydra-Lift Karrier, Spark Resistant SN 1210 to Current (MMYY) or 315000 to Current

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Receiving Procedures

Every Morse drum handler is inspected prior to shipping. However, damage may be incurred during transit.

- Check for visible damage. If you choose to accept damaged freight, always sign noting the damage on the **BILL OF LADING**.
- Document the damage and have the truck driver sign. We recommend keeping a digital camera at your receiving dock for this purpose.
- Open packages expeditiously to check the condition of the goods. There is only a 24 hour window to notify the carrier of any concealed damage.
- IMMEDIATELY REPORT ALL DAMAGE TO THE SHIPPING COMPANY! Then you may contact Morse for assistance with your freight claim.
- Morse Manufacturing will not be held responsible for any damaged freight that is not signed for as damaged.

Delivery to non-business addresses without a loading dock result in additional freight charges. Residential delivery fees, inside delivery fees, re-delivery charges, and lift gate services will be added by the truck line, and are non-negotiable.

Limited 2 Year Warranty

Morse drum handling equipment is guaranteed against defects in workmanship or materials for **TWO YEARS** when used properly within its rated capacity. The warranty does not cover wear from normal use or damage from accident or abuse. Motors and other purchased parts carry the warranties of their manufacturers.



For warranty claims, contact your Morse Dealer to obtain a return authorization number, and for return freight advice. Return freight must be prepaid.

In all instances, liability is limited to the purchase price paid or to repairing or replacing the product. Customer assumes liability for any modifications, unauthorized repairs or parts substitution.

Safety Information

While Morse Manufacturing Co. drum handling equipment is engineered for safety and efficiency, a high degree of responsibility must be placed upon the machine operator to follow safe practices, based primarily on common sense, upon which true safety depends.

Failure to follow the safety precautions in this manual can result in personal injury or property damage. Observe the same precautions as with similar machinery where carelessness in operating or maintenance is hazardous to personnel. Carefully read the safety precautions below and throughout this manual.

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	DANGER - Indicates a situation which, if not avoided, will result in serious injury or death. This signal word is limited to the most extreme situations.
	WARNING - Indicates a situation which, if not avoided, could result in serious injury or death.
	CAUTION - Indicates a situation which, if not avoided, can result in damage to the machine.
%	CAUTION – Do Not Transport with Drum Raised - ALWAYS LOWER THE DRUM HOLDER TO LOWEST POSITION BEFORE TRANSPORTING. The unit can become unstable when transporting with a raised load.
	DANGER - Stay Clear of Power Lines KEEP WELL CLEAR OF POWER LINES. Never approach a power line. Current in a high voltage line may arc some distance from the wire to the steel framed, grounded machine.
	WARNING - The Hydra-Lift Karrier is designed to handle one drum of the types listed in the Machine Description. DO NOT attempt to handle any other type of drum or object. DO NOT exceed the weight capacity 1200 Lb. (554 kg).
	WARNING - Do Not Modify the Unit - Under no circumstances should any modifications be made to the Morse machinery without factory authorization. Any modifications may void the warranty. This machine was designed to perform a specific job and alterations may result in injury to operator or machine.
	WARNING – Level Floors Only - For operation only on clean, level floors of suitable bearing capacity. Do not use on sloped surfaces, ramps, irregular or debris strewn floors.
	WARNING - No Loose Fitting Clothing - Wear close-fitting clothing and safety equipment appropriate to the job. Loose fitting clothing may become caught on the machinery and cause severe personal injury.
	CAUTION - Hydraulic Fluid Under Pressure Can Be Hazardous Escaping hydraulic fluid under pressure can penetrate the skin, causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic lines. Keep hands and body away from pinholes and nozzles, which eject fluid under high pressure. Use a piece of cardboard to search for leaks. If an accident occurs, see a doctor immediately and inform them of the nature of the accident.
	CAUTION - Wear Safety Shoes - Wear safety shoes with non-slip soles and hard toe protection.
	WARNING - This product can expose you to chemicals including barium sulfate, cobalt, titanium dioxide, and 2- methylimidazole, which are known to the State of California to cause cancer, and bisphenol-A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u>

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Machine Description

Model 410M-114 Heavy Duty Hydra-Lift Karrier will pour a drum up to 72" (183 cm) high, measured from the floor to the lowest point of a horizontal drum. It is designed to lift, transport, and dispense a 55-gallon (210 liter) steel drum 22" to 23.5" (56 to 59.7 cm) in diameter.

Maximum full-drum capacity is 1200 Lb. (544 kg). Capacity is derated to 600 Lb. (272 kg) for a half-full drum. Half-full rating is based on the tilt mechanism's capacity for handling an unbalanced bottom-heavy drum.

Controls

The Morse Heavy-Duty Hydra-Lift Karrier is manually propelled and steered.

The hydraulic pump is powered by a vane type air motor. The air motor is controlled by a momentary air valve located on the air motor. Attach air supply to the air valve.

There are two functions for the operator to control (Figure 2.3):

1. LIFT and lower function for vertical positioning of the drum.

- To raise the drum, hold the air valve handle in the on position and raise the LIFT handle. Release the two valve handles when desired drum height is reached.
- To lower the drum, push in the LOWER handle. Air motor is not needed.

2. TILT function to control the degree of rotation of the drum.

- To tilt the drum forward for pouring, hold the air valve handle in the on position and raise the TILT handle. Release the two valve handles when drum angle is reached.
- To return the drum to vertical position, hold the air valve handle in the on position and push down on the TILT handle.



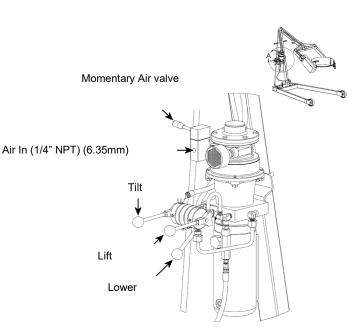


Figure 2.3

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Maintenance

- Periodic inspection for the general condition of structural and mechanical components is imperative for safe and efficient operation.
- Periodically inspect all moving parts, framework, and contact areas for signs of wear, fatigue, or loosening. Tighten, adjust, or replace parts as necessary to prevent failure and maintain proper function.
- Inspect the hydraulic system for oil drips, hose damage, or other signs of wear. Inspect the level and condition of the hydraulic fluid. Replace any parts that show signs of wear.
- Grease wheel bearings periodically. Oil or grease all moving parts including: the clevis pins and the surfaces of the boom which contact the inside of the mast cap, the gears and sprockets in the tilt drive, and the ratchet and pawl.
- Worn or damaged parts must be properly replaced with the correct, genuine Morse parts.
- Hydraulic pump is shipped filled with Noco Premium plus automatic transmission fluid d/m. Material safety data sheet (SDS / MSDS) is available online.
- Recommended oil is petroleum based Dexron III ATF or equivalent (non-synthetic). Change oil yearly.