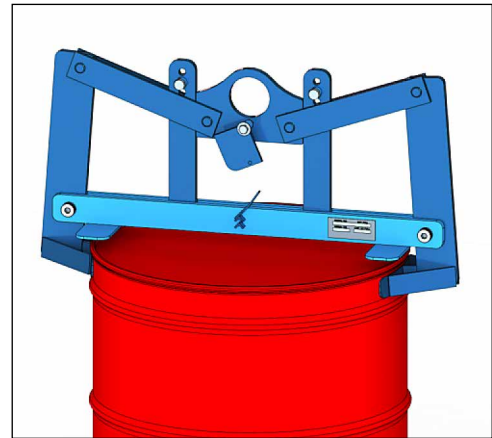


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**Operator’s Manual**  
**for Morse Heavy-Duty Verti-Karrier**  
**Model 90S-HD**  
**Serial Number 400000 to \_\_\_\_\_**



**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.

**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. 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.

Review the Material Safety Data Sheet(s) for the material(s) in the drum(s) and take all necessary precautions. Safety shoes, work gloves, hard hat and other personal protective devices are recommended.

Prior to initial use, inspect all moving parts. Perform necessary load test, inspections, operator training, etc.



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**Operator's Manual for Morse Model 90S-HD Verti-Karrier**

**Safety Information** (continued)

	<b>DANGER</b> - Indicates a situation which, if not avoided, will result in serious injury or death. This signal word is limited to the most extreme situations.
	<b>WARNING</b> - Indicates a situation which, if not avoided, could result in serious injury or death.
	<b>CAUTION</b> - Indicates a situation which, if not avoided, can result in damage to the machine.



**WARNING** - Verti-Karriers are designed to handle one drum of the types listed at the top of page 3. Machine Description. DO NOT attempt to handle any other type of drum or object.



**WARNING** - DO NOT use with a drum which has no top. Drum top is necessary to make drum sufficiently rigid for proper lifting.



**WARNING** - DO NOT exceed the weight capacity of 2000 Lb. (907 kg).



**WARNING** - DO NOT operate damaged or malfunctioning unit, or a unit with missing parts.



**WARNING** - DO NOT lift people or suspend loads over people. Stay clear of suspended loads.



**WARNING** - DO NOT lift loads higher than necessary.



**WARNING** - DO NOT leave suspended loads unattended.



**WARNING** - DO NOT remove or obscure warning labels.



**WARNING** - DO NOT operate without first having read and understood operating manual.



**WARNING** - DO NOT make alterations or 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** - Wear safety shoes with non-slip soles and hard toe protection.



**CAUTION:** DO NOT allow drum to impact on floor, ground, etc.



**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 [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Operator's Manual for Morse Model 90S-HD Verti-Karrier

### Machine Description

**Model 90S-HD** Verti-Karrier is designed to lift and transport a standard 55-gallon (210 liter) steel drum 22.5" (57 cm) in diameter.

The maximum capacity is 2000 Lb. (907 kg).



### Important

1. Review the Material Safety Data Sheet(s) for the material(s) in the drum(s) and take all necessary precautions. Safety shoes, work gloves, hard hat and other personal protective devices are recommended.
2. Please read all instructions thoroughly before attempting to operate your new Morse drum handler.
3. Model 90S-HD Verti-Karrier has a maximum capacity rating of 2000 Lb. (907 kg) and is designed to lift and move a closed steel drum of the size and type noted above. DO NOT exceed this rating. Exceeding this rating or handling drums other than those mentioned above is unsafe and could result in equipment damage, excessive wear, awkward or dangerous handling.
4. When loading, unloading, operating, or maintaining your MORSE drum handler, always use care and good judgment. Maintain secure footing and a firm hold. Keep hands and loose clothing away from all moving parts. Never allow anyone to be below any part of a raised drum handler or drum. Read operating instructions and review the pictures in the sales brochure before operation.
5. Model 90S-HD is a "Group 1 structural and mechanical" below-the-hook lifting device which is covered by the American National Standard ASME B30.20. The user should comply with all aspects of this standard. Unit has been factory load tested and furnished with a load test certificate.

### Operating Instructions

1. Start with Verti-Karrier on the floor resting on its gripping shoes.
2. Lower hoist hook to reach the lifting plate hole (item 4). Engage hoist hook to Verti-Karrier lift plate.
3. Raise hoist to lift Verti-Karrier off the floor. If gripping shoes do not stay in "open position," lower the Verti-Karrier and let the lift plate settle (push down if necessary) so that the peg on the latch weight passes down the ramp and settles under it. This puts the latch in position to hold the Verti-Karrier in the "open position." Raise hoist again to lift the "open" Verti-Karrier.
4. Move hoist with "open" Verti-Karrier over the drum and lower it. Hoist should be guided so that Verti-Karrier settles across the center of the drum top. Latch will automatically change position which will allow the grippers to close and grip the drum when the hoist is raised.
5. The base (item 1) features three hole settings for making adjustments to the gripping shoe diameter. The lifter is factory set with the stop bolts (item 8) in the center hole location. If adjustments need to be made, move the stop bolts up for a slightly smaller diameter, or down for a slightly larger diameter. Keep bolts in same hole setting relative to each other.
6. Raise hoist to lift the drum. You may move the drum as necessary by moving the hoist.
7. To place the drum, simply lower the hoist. Continue to lower hoist so that lift plate settles to permit the latch to return to its "open position."
8. Raise the hoist to lift the Verti-Karrier clear of the drum. It should hold open to be ready to get the next drum as in step 4. If it does not stay open, lower the hoist and check that the latch weight peg is properly moving down the ramp and into its hold open position.

### Maintenance

1. Oil all joints where there are clevis pins (item 12). Oil latch weight (item 3) as it must pivot freely.
2. Lightly grease the inside edges of uprights so that the lifting plate (item 4) will slide freely. Lightly grease the latch pin (see item 3) and latch ramp (at center of item 1) to assure correct latch action.
3. 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.