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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.



**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.

	<b>WARNING</b> - Kontrol-Karriers are designed to handle one drum of the types listed in Machine Description. DO NOT attempt to handle any other type of drum or object.
	<b>WARNING</b> - DO NOT exceed the weight capacity of 900 Lb. (408 kg)
	<b>WARNING</b> - DO NOT operate damaged or malfunctioning unit, or a unit with missing parts.
	<b>WARNING</b> - DO NOT lift people or suspend loads over people. Stay clear of suspended loads.
	<b>WARNING</b> - DO NOT lift loads higher than necessary.
	<b>WARNING</b> - DO NOT leave suspended loads unattended.
	<b>WARNING</b> - DO NOT remove or obscure warning labels.
	<b>WARNING</b> - DO NOT operate without first having read and understood operating manual.
	<b>WARNING</b> - 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.
	<b>CAUTION - Wear Safety Shoes</b> - Wear safety shoes with non-slip soles and hard toe protection.
	<b>CAUTION</b> - DO NOT allow drum to impact on floor, ground, etc.
	<b>WARNING</b> - 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Machine Description

**Model KF-185S3-HD** Kontrol-Karrier is designed to lift, transport and dispense a rimmed 55-gallon (210 liter) steel or plastic drum 22" to 23.5" (56 to 59.7 cm) in diameter. The maximum full-drum capacity is 900 Lb. (408 kg). The capacity is derated to 450 Lb. (204 kg) for a half-full drum. The half-full drum rating is based on the tilt mechanism's capacity for handling an unbalanced, bottom heavy load.



## Accessory

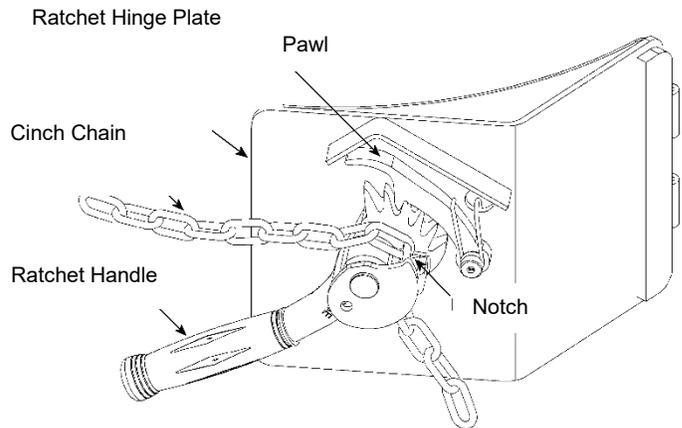
A smaller diameter drum can be handled with the correct size 55/30SS Series Diameter Adaptor installed (see Diameter Adaptor literature).

## Important

1. Please read all instructions thoroughly before attempting to operate your new Morse drum handler.
2. 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.
3. The 185 Series are a "Group 1 structural and mechanical" below-the-hook lifting device which are covered by the American National Standard ASME B30.20. The user should comply with all aspects of this standard.

## Operating Instructions

1. Start with Kontrol-Karrier on the floor. Lower hoist and engage hoist hook to off-center lift point. Empty Kontrol-Karrier will hang plumb from off-center lift point.
2. Raise hoist to lift Kontrol-Karrier clear of floor and transport it to the drum.
3. Suspend Kontrol-Karrier at a height which aligns drum saddle with center of drum.
4. With binder chain hanging freely, swing the ratchet hinge plate to the open position. Push Kontrol-Karrier against drum so that saddle will encircle drum.
5. Secure the drum: drape the binder chain across the face of the drum and engage a link into the slot in the ratchet (shown bottom right). Turn the ratchet clockwise to tighten chain. If the chain doesn't cinch tightly on the drum, lift the pawl to loosen and release the chain and try again with a different link in the notch. Firm hand pressure on the ratchet handle should tighten the chain sufficiently to hold the drum. **DO NOT** use mechanical aids such as a pipe to extend handle for extra leverage.
6. Move hoist hook to lift point centered over the drum.
7. Raise hoist and position drum at pouring station.
8. Pour the drum by turning the hand wheel and rotating the drum to a suitable pouring angle. If the drum handler is equipped with the MORStop Tilt-Brake. Braking is immediate and self actuating, without additional steps by the operator.  
To add the MORStop Tilt-Brake to your drum handler, order part # 3900SS-P for a field installation kit.
9. After pouring is completed, rotate drum back to vertical position and lower hoist to return drum to floor.
10. To remove drum: Pull ratchet handle clockwise to relieve pressure on ratchet teeth. Lift pawl handle to release teeth engagement and rotate ratchet to loosen chain and allow its removal from notch.



**Maintenance**

1. Periodic inspection for the general condition of structural and mechanical components is imperative for safe and efficient operation.
2. Lubricate gear teeth and roller chain.
3. Clean and oil ratchet, pawl and other moving parts periodically to maintain free action and reduce wear. Clean and lubricate more often in environment where dust, dirt or other foreign particles will effect the performance of moving parts.
4. 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.
5. Worn or damaged parts must be properly replaced with the correct, genuine Morse parts