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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. 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 and test rotation of can holder(s). Inspect each can holder for proper operation. Perform necessary load test, inspections, operator training, etc.



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.

		<p>DANGER - Watch Out for Pinch Points. Stay clear of moving parts. Do Not Stand Near any Part of a Rotating Can or Can Holder. Morse Tumblers do not comply with OSHA unless they are installed in accordance with OSHA subpart O, 1910.212 - "General requirements for all machines." "Revolving drums, barrels, and containers shall be guarded by an enclosure which is interlocked with the drive mechanism, so that the barrel, drum, or container cannot revolve unless the guard enclosure is in place." Safety Enclosure Kit with Interlock can be ordered for any MORSE tumbler.</p>
	<p>WARNING - The Can Tumbler is designed to handle one can or pail of the types listed in Machine Description. DO NOT attempt to handle any other type of can or object. DO NOT exceed the weight capacity of 100 Lb. (45.4 kg) per can.</p>	
	<p>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 damage to machine.</p>	
	<p>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.</p>	
	<p>CAUTION - DO NOT allow drum to impact on floor, ground, etc.</p>	
	<p>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</p>	

Machine Description

Morse Can Tumblers

- 2-305 Series Double Can Tumblers
- 1-305 Series Single Can Tumblers

Morse Can Tumblers have a maximum capacity rating of 100 Lb. (45.4 kg) per can holder and are designed to rotate a can at an angle resulting in continuous "corner over corner" mixing action. They DO NOT shake or oscillate.

Tumbling speed is 23 RPM (19 RPM on 50Hz models).

The can holder will accept cans 4.5" to 16.5" (12 to 42 cm) tall, and up to 12.5" (31 cm) diameter.



WARNING - DO NOT exceed these ratings. Exceeding these ratings or handling a drum other than those mentioned above is unsafe and could result in equipment damage, excessive wear, motor overload and shortened service life of transmission components.



Assembly Instructions

1. Remove the following items from the cardboard box: 305 base and can holder complete.
2. Slide can holder complete onto drive shaft and attach with provided roll pin.

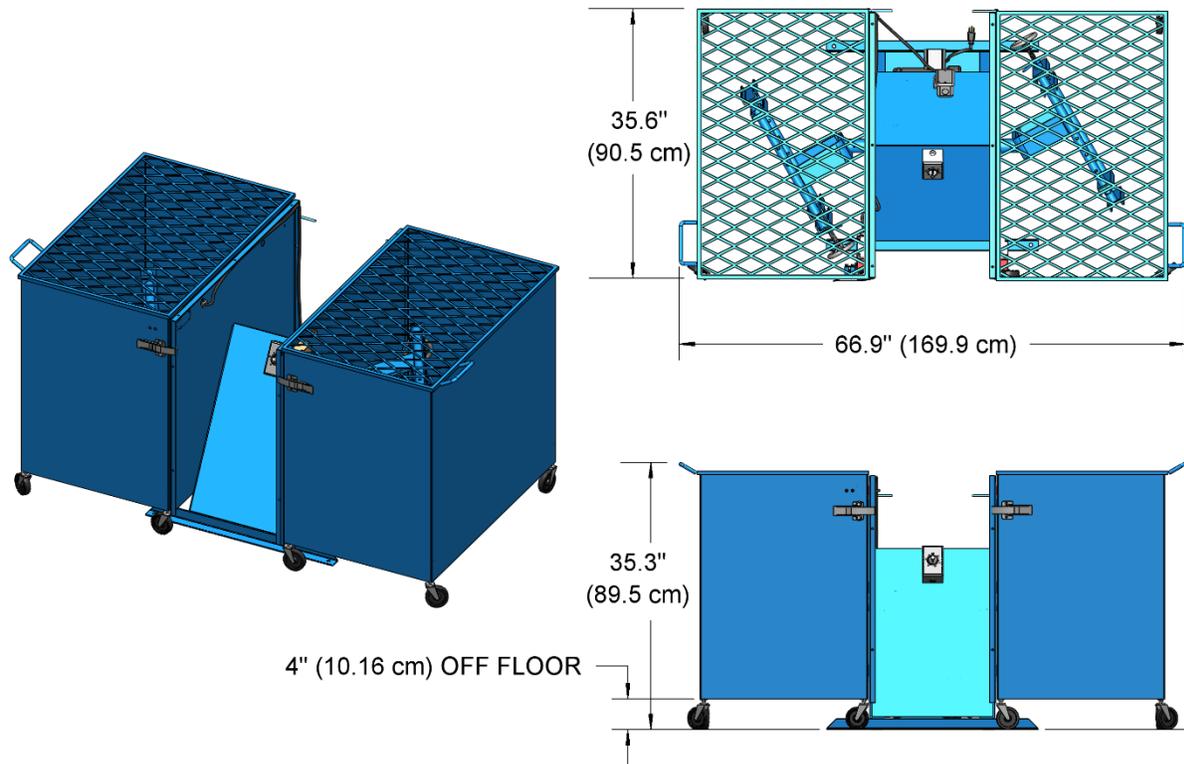
Installation Instructions

1. The Can Tumbler base should be bolted to the floor using the 4 holes provided in the base frame.
2. The base has four holes spaced 26" (66 cm) wide x 26-5/8" (67.6 cm) long. Morse recommends the rotator be secured to the floor using 3/8" (.95 cm) diameter x 3" (7.62 cm) long lag bolts. Customer is responsible for choosing proper size and type to best suit their needs.
3. Install all Morse Rotators in accordance with OSHA, CSA or CE requirements for enclosure and safety interlock, etc. so the rotator automatically turns off when enclosure door is opened. One way to accomplish this is with a Morse enclosure with safety interlock.

For OSHA compliance, see OSHA subpart O.1910.212(a)(4), "Barrels, containers, and drums. Revolving drums, barrels, and containers shall be guarded by an enclosure which is interlocked with the drive mechanism, so that the barrel, drum, or container cannot revolve unless the guard enclosure is in place."

4. Power connections and motor controls must comply with applicable codes.

Guard Enclosure Kits Sold Separately



Operating Instructions

1. Place can in can holder so that the weight is centered in the can holder. This can be done by adjusting the bottom cross bar using the holes and 2 adjusting pins provided.
2. Clamp down on can with top cross bar by turning handwheel until bar secures the can. Turn screw lock down until its tight against the 5/8-8 acme nut mounted on the top channel. The can is now secure for rotating.
3. 305 Series Can Tumblers with single phase TEFC (totally enclosed fan cooled) motor come with a cord, plug and timer. The timer allows operator to select running time up to 60 minutes with automatic shut-off. This model can be plugged into the wall power supply and started with the timer. When starting the unit be careful to stand clear of the can holder as it will begin to rotate.
4. 305 Series Can Tumblers with three phase TEFC motor and explosion proof motor (1-phase or 3-phase) do not come with a cord or starter. The customer is responsible for wiring up these motors in accordance with electrical codes in their area.
5. 305 Series Can Tumblers with AIR motor come with 3/8" push lock hose and a 1/4" fitting. The customer should connect their air supply to the unit according to the air motor manufacturer's instructions. Morse recommends 40 PSI of air pressure to run unit properly.



WARNING - DO NOT stand near can holder when starting unit or when unit is in operation.



CAUTION - DO NOT exceed weight capacity of 100 Lb. (45.4 kg) per can.

Maintenance

- Pillow block bearings are equipped with grease fitting and should be lubricated periodically. High pressure grease guns are not recommended, as their force may damage seals.
- Grease roller chain periodically with any sufficient grade of anti-sling grease (e.g. Whitmore lubes "Surtac 2000").
- Motors have permanently lubricated ball bearings.
- Periodically inspect all moving parts, framework, and contact areas for signs of wear or loosening. Tighten, adjust, or replace parts as necessary to prevent failure and maintain proper function.