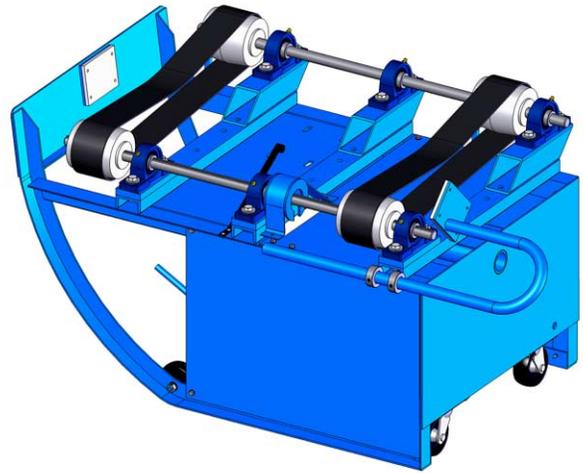


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**Operator's Manual
 for Morse
 Belted Portable Drum Rollers**

201B Series
 with Serial Number 010116 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 and test rotation of belts. Perform necessary inspections, operator training, etc.

Operator's Manual for Morse 201B Series Portable Drum Rollers
Serial Number 010116 to _____

Safety Information (continued)

 **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.



DANGER - Stay Clear of Rotating Drum. NEVER allow anyone to be near any part of the rotating drum. Operator should remain clear of the Roller.



WARNING - The 201B Series Drum Rollers are designed to handle one drum of the types listed at the top of page 3 under Machine Description. DO NOT attempt to handle any other type of drum or object. DO NOT exceed the weight capacity.



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 - 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 - Wear safety shoes with non-slip soles and hard toe protection.



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



CAUTION - Install Morse Rollers in accordance with OSHA requirements for enclosure and interlock, etc. For OSHA compliance, see OSHA subpart O.1910.212 "General Requirements for all Machines." Power connections and motor controls must comply with applicable codes.

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Machine Description

The 201B Series Drum Rollers are designed to roll a fiber drum, 16" to 23" (41 to 59 cm) in diameter, and up to 35" (89 cm) long.

- Fixed speed models roll a 22" (56 cm) diameter fiber drum at 20 RPM.
- The 201BVS Series has Variable Speed from 15 to 24 RPM. The drum rotation speed is based on a 23" (58.4 cm) diameter fiber drum and a 60 Hz, 1725 RPM motor. The drum rotation speed decreases with a 50 Hz motor.

Capacity:

- The maximum liquid load capacity rating is 300 Lb. (136 kg).
- Dry load capacity varies with speed of drum rotation. At 20 RPM dry load capacity is 300 Lb. (136 kg).
- The capacities of Variable Speed models are 300 Lb. (136 kg) at 15 RPM, and 250 Lb. (113 kg) at 24 RPM.



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.

When loading, unloading, operating, or maintaining your MORSE portable drum Roller, 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 near a rotating drum. Read operating instructions and review the pictures in the sales brochure before operation.

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. When loading, unloading, operating, or maintaining your MORSE drum Roller, 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.
4. Morse Rollers do not comply with OSHA unless they are installed in accordance with OSHA subpart O, 1910.212 - "General requirements for all machines." Morse Rollers should be installed in accordance with OSHA requirements for enclosure and interlock, etc. Power connections and motor controls must comply with applicable codes.
5. Prior to initial use, inspect all moving parts. Perform necessary inspections, operator training, etc.

Assembly and Installation Instructions

1. Remove cotter pin from hole in end of tipping lever. Slide lever through hole in back plate of Roller. Replace cotter pin in hole in end of tipping lever and spread its ends.
2. Drive and idler pulleys may be adjusted for different length drums. Pulleys should remain equidistant from each end of drum. To adjust pulleys, loosen collar set screws with provided 5/32" Allen wrench. Slide collar/pulley assembly to desired location and tighten collar set screws.
Note: Be careful not to lose key on drive pulleys.
3. Do not put into service without proper motor protection and controls. The ½ horse power, single phase 115V 60Hz unit is supplied with a switch, cord and plug. The motor can be plugged into the wall power supply and started with the switch. When starting the unit be careful to stand clear of the Roller as the drum will begin to rotate.

Units ordered with a three phase, explosion-proof or 50Hz motor are not supplied with switch, cord, or plug. Customer should provide the proper controls and consult an electrician to complete the wiring.

Rollers equipped with an air motor require 40 psi, 22 scfm. Operating the air motor at higher pressures will reduce the life of the air motor and power transmission components.

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Operating Instructions

1. Position Roller in front of drum to be rotated. Tip Roller forward towards drum until almost vertical. Lower kickstand so unit stands by itself. Tilt drum up slightly in order to slide nose piece of Roller underneath drum.
2. With tipping lever fully extended for maximum leverage, attach hook lever across top of drum on to the rim. Flip kickstand out of the way. Place foot on axle for added leverage and pull back on tipping lever until drum is broken over, remove foot and continue lowering until Roller and drum are horizontal. Remove hook lever from drum.
3. Slide drum positioner through collars attached to frame. Place wear pad against drum to prevent lateral movement. Tighten collar set screws. Drum positioner can be adjusted for lengths up to 35" (89 cm).
4. Drum is now ready to be rotated or moved to desired location.
5. The speed on the 201BVS is preset to 15 RPM and can be adjusted by turning the crank located in the bottom right corner of the back plate. Turn the crank counterclockwise to increase the speed.

Maintenance

1. 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.
2. Grease roller chain periodically with any sufficient grade of anti-sling grease (e.g. Whitmore lubes "surtac 2000").
3. Motors have permanently lubricated ball bearings.
4. 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.