

# MERIDIAN<sup>®</sup>

## MOBILE CEMENT SILO



[meridianmfg.com/mobile-cement-silos](http://meridianmfg.com/mobile-cement-silos)



## OPERATOR'S MANUAL



# PRODUCT REGISTRATION FORM



**Attention Dealers:**

You can register products online through the Dealer Login: <http://dealers.meridianmfg.com/login/>

It is mandatory to register your product in order to qualify for future warranty claims that may arise. Knowingly falsifying information on this form will result in the voiding of the product warranty.

You may scan/photograph this completed form (must be legible), email it to: [register@meridianmfg.com](mailto:register@meridianmfg.com)  
A copy of this form may also be mailed to Meridian Manufacturing Inc.

Buyer's Name _____	Dealer's Name _____
Address _____	Address _____
City, Prov/State _____	City, Prov/State _____
Postal/Zip Code _____	Postal/Zip Code _____
Phone Number _____	Phone Number _____

**Note:** Registering a product in multiple entry format is only allowed when the product has the same model number and the same dealer, however each serial number must be legibly listed for each unit. Delivery dates for a multiple entry must be within a one month time frame.

Product Information \_\_\_\_\_

Model # \_\_\_\_\_ Serial # \_\_\_\_\_

Invoice Date \_\_\_\_\_

**Important:** Please send this form to the Meridian Manufacturing Inc. location which built this product being registered. If you require further assistance call you're dealer or the Meridian outlet nearest to your location.

We want to thank you for purchasing a Meridian manufactured product. Whether this is your first Meridian purchase or you have been a customer for years, you are now part of the Meridian community of customers and we appreciate your business.

It is important that you now complete the product registration information and this form indicating you have received delivery. This registration and information is necessary to ensure you have access to warranty and product updates in the event it be required in the future.

Registration can be completed by using this form or visiting your dealer who will complete the form online. You will be given access to the Meridian Community and become eligible for updates, special offers and prizes.

Again, thank you for choosing Meridian.

I have thoroughly instructed the buyer on the above described equipment. The review included the content of this manual, equipment care, adjustments, safe operation and warranty policy.

Date \_\_\_\_\_ Dealer's Signature \_\_\_\_\_

The above equipment and this manual have been received by me. I have been thoroughly instructed as to care, adjustments, safe operation and applicable warranty policy.

Date \_\_\_\_\_ Buyer's Signature \_\_\_\_\_

This page intentionally left blank

## TABLE OF CONTENTS

<b>DESCRIPTION</b>	<b>PAGE</b>
Section 1: INTRODUCTION . . . . .	1-1
Section 2: SAFETY . . . . .	2-1
2.1 Safety Orientation . . . . .	2-2
2.2 General Safety . . . . .	2-2
2.3 Equipment Safety Guidelines . . . . .	2-2
2.4 Work Preparation . . . . .	2-3
2.5 Lock-Out Tag-Out Safety . . . . .	2-3
2.6 Maintenance Safety . . . . .	2-3
2.7 Operating Safety . . . . .	2-4
2.8 Safety Decals . . . . .	2-4
2.8.1 Applying Decals . . . . .	2-4
2.9 Safety Decal Location . . . . .	2-5
Section 3: SITE AND INSTALLATION . . . . .	3-1
3.1 Silo Location . . . . .	3-1
3.2 Silo Foundation . . . . .	3-2
3.3 Installation . . . . .	3-2
Section 4: OPERATION . . . . .	4-1
4.1 Components and Controls . . . . .	4-2
4.2 Control Panel . . . . .	4-4
4.3 Loading . . . . .	4-5
4.4 Blower Unload . . . . .	4-6
4.5 Auger Unload . . . . .	4-8
4.6 Weigh Scale . . . . .	4-11
Section 5: SERVICE AND MAINTENANCE . . . . .	5-1
5.1 Silo Inspection . . . . .	5-2
Section 6: REFERENCE . . . . .	6-1
Warranty Statement	

This page intentionally left blank

## Section 1: INTRODUCTION

Thank you for choosing a Meridian® Mobile Cement Silo.

This silo is designed to be easily transported and relocated on a heavy duty trailer, it allows for extremely practical and dependable storage from site to site.

Keep this manual for future reference. Call your dealer or distributor, or our office, if you need assistance, information, additional/replacement copies, or a digital version of this document.

Information provided herein is of a descriptive nature. Meridian Manufacturing Inc. reserves the right to modify the equipment design and specifications without any preliminary notice.

Performance quality may depend on the material being handled, weather conditions and other factors.

### SERIAL NUMBER

The serial number is located above the hopper slide gate or butterfly valve.

Have the serial number available when communicating with the dealer or factory and requesting service or asking for information.

Use the space provided for easy reference:

Silo Model No: \_\_\_\_\_

Silo Serial No: \_\_\_\_\_

Auxiliary Equip: \_\_\_\_\_



Fig 1 - Serial number location

This page intentionally left blank

## Section 2: SAFETY

3 Big Reasons why safety is important to you:

- Accidents Disable and Kill
- Accidents Cost
- Accidents Can Be Avoided

The Safety Alert Symbol means:



The Safety Alert Symbol identifies important safety messages on the silo and in this manual.

The following signal words are used in this manual to express the degree of hazard for areas of personal safety.

When you see the symbol and/or the signal words described below, obey the accompanying message to avoid possible injury or death.



Indicates a hazardous situation that, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations. Typically for machine components which, for functional purposes, cannot be guarded.



Indicates a hazardous situation, if not avoided, could result in death or serious injury. This word identifies hazards that are exposed when guards are removed. It may be used to alert against unsafe practices.



Indicates a hazardous situation, if not avoided, could result in minor or moderate injury. It may be used to alert against unsafe practices.



Indicates practices or situations which may result in the malfunction of, or damage to equipment.



Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

## 2.1 SAFETY ORIENTATION

YOU are responsible for the SAFE usage and maintenance of your Meridian® Mobile Cement Silo. Be sure that everyone who will maintain or work around it, is familiar with the safety, maintenance procedures.

This manual will take you step-by-step through your working day. It will alert you to all the safe practices that should be adhered to while using the silo.

Remember, you are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a regular part of your safety program. Be certain that everyone who will work with this equipment follows these procedures.

Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Silo owners must give assembly instructions to employees before allowing them to work with the machine.
  - Procedures must be reviewed annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- Develop a comprehensive safety program for your work area.
- Think SAFETY! Work SAFELY!

## 2.2 GENERAL SAFETY

You are responsible for the safe use and maintenance of this silo. Good safety practices not only protects you but also those around you. All accidents can be avoided.



- Use this silo for its intended purpose only.
- This silo is not intended for use by children.
- DO NOT modify the silo in any way without written permission from the manufacturer. Any unauthorized modification of it will void the warrant.

## 2.3 EQUIPMENT SAFETY GUIDELINES

- Mount signage around the structure to indicate that the area is off limits.
  - No unauthorized persons allowed.
- Safety of the workers and bystanders is one of the main concerns when designing and developing this silo. However, every year many accidents occur which could have been avoided by a few seconds of thought, and a more careful approach to handling equipment.
- DO NOT allow personnel to use this silo until they have read this manual. They should have a thorough understanding of the safety precautions.
  - Review the safety instructions with all users annually.

## 2.4 WORK PREPARATION

- Work only in daylight or good artificial light.
- Clear working area of stones, branches or hidden obstacles that might be hooked or snagged, causing injury or damage.
- Stay away from overhead obstructions and power lines during transporting and operation. Electrocutation can occur without direct contact.
- Be sure all auxiliary machinery is in a stable position, is adjusted and in good operating condition.
- Install and secure all guards on auxiliary loading/unloading equipment be using it.
  - Safety decals must be in good condition.
- Before starting, inspect all equipment for any loose bolts, worn parts, cracks, leaks or frayed belts. Make the necessary repairs.
- **PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!**

Industrial equipment can often be noisy enough to cause permanent, partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the operator's position exceeds 80 db.



Noise over 85 db on a long-term basis can cause severe hearing loss.

Noise over 90 db adjacent to the operator over a long-term basis may cause permanent, total hearing loss.

### Note:

Hearing loss from loud noise (tractors, chain saws, radios, etc.) is cumulative over a lifetime without hope of natural recovery.

## 2.5 LOCK-OUT TAG-OUT SAFETY

- Establish a formal Lock-Out Tag-Out program for your work site.
- Train all operators and service personnel before allowing them to work around the area.
- Provide tags on all auxiliary equipment and a sign-up sheet to record tag-out details.

## 2.6 MAINTENANCE SAFETY

Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.

- Create a Lock-Out Tag-Out program for the auxiliary equipment used to load and unload the silo.
- Use personal protective equipment (PPE) such as eye, hand, breathing and hearing protectors, when performing any service or maintenance work. 
- A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment. 
- Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure the silo and auxiliary equipment are secure.

## 2.7 OPERATING SAFETY

Anyone who will be using the silo or working around it must read and understand all the operating, maintenance and safety information in this manual.



- Keep all bystanders, especially children, away from the silo when loading or unloading is being done.
  - Only authorized personnel may carry out maintenance work.

- Be familiar with machine hazard area. If anyone enters hazard areas, shut down machine immediately. Clear the area before restarting.

- Keep hands, feet, hair and clothing away from all moving/rotating parts.



- Keep working area clean and free of debris to prevent slipping/tripping.

- Make sure the safety section of the access ladder is raised and latched in place to prevent children and other unauthorized persons from climbing up on the bin.



- Attach and use a safety line when climbing the silo ladder.

## 2.8 SAFETY DECALS

- Keep safety decals clean/legible at all times.
- Replace safety decals that are missing or have become illegible.
- All safety decals have a part number in the lower right hand corner. Use this part number when ordering replacements.
- Safety decals are available from your authorized distributor, dealer's parts department or from the factory.

### 2.8.1 Applying Decals:

1. Be sure the application area is clean and dry. Ensure the surrounding temperature is above 10°C (50°F).
  - a. Remove all dirt, grease, wax from surface.
  - b. Clean with a non-ammonia based cleaner.
  - c. Wipe the clean surface with isopropyl alcohol on paper towel, and allow to dry.
2. Determine the exact position before you remove the backing paper.
3. Peel a small portion of the split backing paper.
4. Align the decal over the specified area. Use a squeegee to carefully press the small portion, with the exposed adhesive backing, into place.
5. Slowly peel back the remaining paper and carefully smooth the rest of the decal into place.
6. Small air pockets can be pierced with a pin and smoothed out using the squeegee, or a piece of sign backing paper.

## 2.9 SAFETY DECAL LOCATION

Safety decals are attached to the structure in a visible and convenient location for readability. A safe workplace requires that you familiarize yourself with the information on the decals.

Fig 2 - Safety decal



19977SK-70

This page intentionally left blank

## Section 3: SITE AND INSTALLATION

### WARNING

- Read and understand this manual.
- Clear the area of bystanders, especially children, before starting.
- Prepare the base carefully to be sure the silo is supported evenly to prevent tipping.
- Stay away from power lines when lifting or moving the silo. Electrocutation can occur without direct contact.
- Move the silo on a calm day or light breeze. The silo is a large, hard-to-handle object that can easily be caught and moved by the wind.
- Use extra care when moving silo. Never move a silo with product in it.
- Use only an approved hoist, crane or other lifting system when positioning silo.

### 3.1 SILO LOCATION

Unless otherwise specifically provided in writing, Meridian® does not take responsibility for any defects or damages to any property, or injury to any persons, arising from or related to any site or assembly considerations, including but not limited to:

- Silo location and siting.
- Soil conditions and corresponding foundation requirements.
- Field modifications or equipment additions that affect the silo structure.
- Interconnections with neighbouring structures.
- Compliance with all applicable safety standards, including but not limited to, fall restraint systems (ladders or other systems). Local safety authorities should be contacted as standards vary between jurisdictions.

It is important that you, the customer, plan the work site to minimize or eliminate the need to move the silo once positioned.

- We recommend that you consult a civil engineer regarding the chosen site, the soil load bearing capacity, proper method of construction and type of concrete pad.
- Clear area of bystanders, especially children.
- Use hoists, or cranes with sufficient lift capacity and reach for the silo being positioned.
- Do not move/transport a silo when it is windy.
- Ensure the silo is positioned on a base that has been properly prepared to support the weight and loads of the silo when filled.
- Electrocutation can occur without direct contact. Do not place bin within 40 ft from power lines.

### 3.2 SILO FOUNDATION

Although the silo is mobile and the location may be temporary, it is recommended that the base be prepared to support and carry the weight and load of the silo full of stored material.

The foundation specifications included in this manual are suggestions only, and may not be applicable to your local soil conditions.

Meridian Manufacturing Inc. will not assume any liability for results arising from their use.

#### Gravel Base:

- Meridian® strongly advises you to consult a civil engineer regarding the site you choose. A professional engineer will check the soil conditions and soil load bearing capacity. They can use the silo's empty and full weights (each product has a different weight) to advise on preparing the proper base.
- The silo must be placed on a minimum of 10 inches of compacted granular fill. The entire bearing area of the skid should rest evenly on this area. The fill should be in an area with proper type of soil and good drainage to provide a firm base.
- The foundation should be uniform and level. It should not vary by more than 1/4" over a span of four feet.



Fig 3 - Unloading silo

### 3.3 INSTALLATION

Care must be used when moving, lifting and positioning the silo.

- Clear the area of bystanders, especially small children.
- Stay away from power lines when lifting or moving the silo. Do not place a silo within 40 ft from power lines.
  - Electrocutation can occur without direct contact.
- Never move a silo with product in it. The legs, base and supporting structure are not designed with sufficient strength to carry the combined mass. Any structural damage occurring during the move, can lead to more problems or damage when the silo is filled at its final position.
- Do not use tow hooks on the skid base to pull the silo with any product inside. Because of the inherent high centre of gravity and the pulling force that would be concentrated at the tow hooks, the silo could tip over, creating a safety hazard.
- If the unit must be pulled, make sure that it is completely empty and that the area that it will be pulled over is firm, level and contains no obstructions. Proceed with extra caution. The silo is top heavy, having a high centre of gravity and can tip easily.
- Use only a crane, hoist or lift with sufficient load carrying and reach capacity. It must have the appropriate stability to raise, move, position and lower the silo.
- It is recommended that installing the silo be done on a calm day or one with light winds. A silo is a large, hard-to-handle object that can easily be caught and moved by the wind.
- The silo is designed to take a wind load of up to 129 km/h (80 mph).

## Section 4: OPERATION

### **WARNING**

- Read and understand this manual, and all safety decals, before using.
- Keep all bystanders, especially small children, away when loading/unloading or performing any maintenance work.
- Use personal protective equipment (PPE) such as eye, hand, breathing and hearing protectors, when working with the silo.
- Attach and use a safety line when climbing the silo ladder.
- Do not crawl under opened unloading chute to inspect for a suspected blockage.
- Establish a Lock-Out Tag-Out policy for your work site. Always lock-out tag-out power source before entering silo or performing any maintenance work.
- Raise and latch the ladder in up position to prevent unauthorized use.

The Mobile Cement Silo (MCS) has a heavy-duty skid foundation saves on site prep-work, and can be setup in less than 30 minutes. Each MCS has a self-contained unload system.

It is the responsibility of the owner and users to be familiar with the silo(s) and all the auxiliary loading/unloading equipment before starting. By following the recommended procedures, a safe working environment is provided for the workers and bystanders in the work site.

Hazard controls and accident prevention are dependent upon the personnel working with and maintaining the equipment. Their awareness, concern, prudence and proper training are crucial.

By following these instructions, in conjunction with a good maintenance program, your silo will provide many years of trouble-free storage.

## 4.1 COMPONENTS AND CONTROLS

This is a list of the general components which are on all silos. This list does not include the unloading options.

The interior is powder coated, which offers corrosion protection.

### Two 5" Fill Tubes:

- Fill Line Overfill Control System
- Pinch Valve
- Camlock Coupler
- High Level Indicator



Fig 4 - Roof components and two fill tubes



Fig 6 - Pinch valves



Fig 7 - Camlock couplers on fill tube ends

### Pressure Relief Valve

### Dust Collector



Fig 5 - Pressure relief valve and dust collector

**LED Work Lights**



Fig 8 - LED work lights

**Aeration Pads**

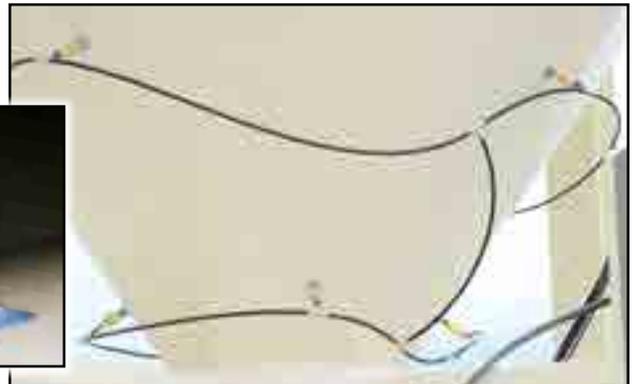


Fig 9 - Aeration pads, inside view and outside

**Control Panel**

Refer to Section 4.2 for more information.

**Blower Unload Package**

Refer to Section 4.4 for more information.

**Auger Unload Package**

Refer to Section 4.5 for more information.



Fig 10 - Scale indicator and control panel



Fig 11 - Blower unload package (optional)



Fig 12 - Auger unload package (optional)

## 4.2 CONTROL PANEL

The Control Panel contains:

- Pre-wired Automatic Control Panel
- Auto / Manual Switches for Major Components
- Alarm Lights for Level Indicators
- Alarm Horn for Overflow System
- Main Service Disconnect
- Emergency Stop
- VFD Control for Vane Feeder
- Overpressure Switch for Transfer System
- Automatic Flow Control of Transferred Material

1. The large, power shut-off switch is at the top of the panel.
2. The control panel has a key to lock-out the system removing all power from the panel.
  - Always remove the key and store in a safe location when not in use.
3. Control the system by using the START and STOP buttons.
4. The Emergency Stop button is centrally positioned for easy access.
5. Each function has it's own switch:
  - Lights
  - Air compressor
  - Blower
  - Dust vent
  - Slide gate
6. If equipped with an unload auger, it has switches for its functions:
  - Lock/Unlock
  - Raise/Lower
  - Turn On/Off
  - Speed
  - Raise/Lower Spout

There are level indicator alarm lights.

Also, there is an overflow system alarm horn.



Fig 13 - Control panel box



Fig 14 - Control panel

### 4.3 LOADING

For loading, the silo is equipped with:

- Two 5" Fill Tubes. Each tube contains:
  - Fill Line Overfill Control System
  - Pinch Valve
  - Camlock Coupler
- Dust Collector
- High Level Indicator
- Pressure Relief Valve

If overfill is detected, the pinch valve will close to prevent back-fill.

The dust collector assists in reducing the residual from the flowing product.

1. Remove the camlock coupler, and attach the fill lines to the tubes.
2. At the control panel:
  - a. Switch ON the power lever to the system control panel.
  - b. Turn ON the system control.
  - c. Turn ON the air compressor.
  - d. Start the dust collector vent.
3. Begin filling the silo.
  - The pinch valves and expansion chambers will keep product from back flowing.
  - The fill line overfill control system will alert the operator if overfilling becomes a problem.
  - **IMPORTANT:** The High Level warning light will eliminate when the product level is reaching maximum.

**Note:**

Aeration may be used to stir the product so it does not settle and cause bridging.



Fig 15 - Two fill tubes



Fig 16 - Dust collector and pressure relief valve



Fig 17 - Pinch valves



Fig 18 - Camlock couplers on fill tube ends

#### 4.4 BLOWER UNLOAD (if equipped)

The Blower Unload system contains:

- 60 HP Blower Package with TEFC Motor and Coupling
- Silencer System Pre-Cleaner
- Pressure Relief Valve
- Smoot Rotary Air Lock
- 2 HP VFD Drive System
- 8 Vane with Enclosed End Plates
- Bolt-On Rotor Tips made of AR Steel
- Outboard Bearings with Chesterton 412 Packing Material
- Chrome Plated Body and End Plates
- Low Pressure Air Purge System
- Maximum Output @ 100% is 2688 ft<sup>3</sup>/hour

The Air Control system contains:

- 7.5 HP Air Compressor with 80 Gallon Tank
- Central Air System
- Air Solenoids
- Air Filter
- Pressure Regulators
- Aeration Pads with Manifold for Silo Cone
- Pre-wired to Control Panel

1. Remove the camlock coupler from below the slide gate.
2. Attach the unload lines to the tube.
3. At the control panel, switch ON the lever to give the system power.
4. Turn ON the system control.
5. **IMPORTANT:** There is an Emergency Stop button centrally located if needed.
6. Turn ON the air compressor.
7. Start the dust collector vent.
8. Open the slide gate, incrementally!  
- **DO NOT** open the gate fully at the start.
9. Be sure to close the gate when unloading is complete!



Fig 19 - MCS-160 with blower unload



Fig 20 - Components on roof



Fig 24 - Blower package



Fig 21 - Pressure Relief Valve



Fig 22 - 7.5 HP Air compressor



Fig 25 - 80 gallon tank



Fig 23 - Slide gate and unload tube

## 4.5 AUGER UNLOAD (if equipped)

The Auger Unload system contains:

- 10" Cement Screw W/20-HP electric Motor
- Breakaway Auger for easy transport
- VFD for start and Speed Control
- 12" Butterfly Valve
- Pressure Relief Valve

1. At the control panel, switch ON the lever to give the system power.  
- See Figure 14.
2. Use the key to switch ON system control.
3. Turn ON the system control.
4. Turn On the lights if necessary.

### **IMPORTANT:**

There is an Emergency Stop button centrally located if needed.

5. Start the dust collector vent.
6. **IMPORTANT:** Remove the weather cap from the flange on the lower tube before unfolding the auger.



16950



Fig 26 - Auger tube weather cap



Fig 27 - MCS-160 with auger

## NOTICE

### EQUIPMENT DAMAGE LIKELY

Visually confirm that the actuator has *disengaged* or *engaged* the locking pin before lowering or raising the auger tube.

7. Use the Lock Actuator switch to unlock the to release the auger tube from against the silo wall.
8. **IMPORTANT:** Visually confirm that the locking pin has fully disengaged, so the auger tube is free to lower.
9. Press the Lower or Raise button to move the auger tube into position.
10. Turn the auger switch to Manual or Auto, to start it rotating.
11. Use the Speed switch to increase or decrease the unload speed.
12. Use the Slide Gate switch to open the butterfly valve.  
- See Figure 33 for image of the valve.
13. When unloading is complete, turn off the auger.
14. **IMPORTANT:** Visually confirm that the locking pin has fully disengaged, so the auger tube will not bend the pin.
15. Raise the auger tube to lay up against the silo wall.
16. Lock the actuator to keep the auger tube in storage position.
17. Visually confirm that the locking pin has fully engaged, securing the auger tube in storage position.



Fig 28 - Auger actuator and locking pin



Fig 29 - Hydraulic pump for auger operation



Fig 30 - Check valve to auger unfolding cylinder



Fig 31 - 10" Cement Screw with 20 HP electric motor



Fig 32 - Bellows/retractable downspout for auger



Fig 33 - 12" Butterfly valve without auger attached



Fig 34 - Butterfly valve with auger

## 4.6 WEIGH SCALE (if equipped)

If equipped with a weight scale package, there will be a load cell at the base of each leg. The scale display is located next to the main control panel.

**Note:**

Refer to the Scale Indicator user manual for instructions on calibration and operation.



Fig 35 - Weigh scale indicator



Fig 36 - Load cells at the base of each leg

This page intentionally left blank

## Section 5: SERVICE AND MAINTENANCE

### WARNING

- Read and understand this manual.
- Establish a Lock-Out, Tag-Out policy for your work site. Always Lock-Out Tag-Out equipment before entering silo or performing any maintenance work.
- Only enter the silo when it is empty.
- Wear appropriate personal protective equipment (PPE), for the task you are performing.
- Do not attempt to enter silo when it contains product.
- Attach a safety line to an anchor outside before entering.

Each mobile site is different. You must develop a service and maintenance program specific to your location and circumstances. You are responsible to ensure that your silo(s) are compatible with the product which you wish to store.

By following a careful service and maintenance program for your silo(s), you will enjoy many years of trouble-free storage.

### 5.1 SILO INSPECTION

- It is important to check that all air vent(s) are open and clear of obstructions.
  - Ventilation prevents a vacuum from forming during unloading or emptying, which may cause the silo to implode.
- Inspect welded seams.
- Tighten all bolts to their specific torques.
- Inspect and adjust all plugs, fittings and valves as required.
- Exterior enamel paint kits are also available to touch up scrapes and minor dent marks.
- When the silo is empty:
  - Inspect the welded seams inside.
  - Inspect all internal components.
  - Inspect the painted silo for bare metal areas where the paint has worn.

A special epoxy paint kit is available and it is highly recommended that only this type of paint be used.

It is especially necessary that any bare metal be painted before storing corrosive commodities. Exposed metal will corrode quickly.

This page intentionally left blank

## Section 6: REFERENCE

For information not included here, or for a digital copy of this manual, please call your dealer, or Meridian Manufacturing Inc. directly for assistance. Visit our website at: [www.meridianmfg.com](http://www.meridianmfg.com).

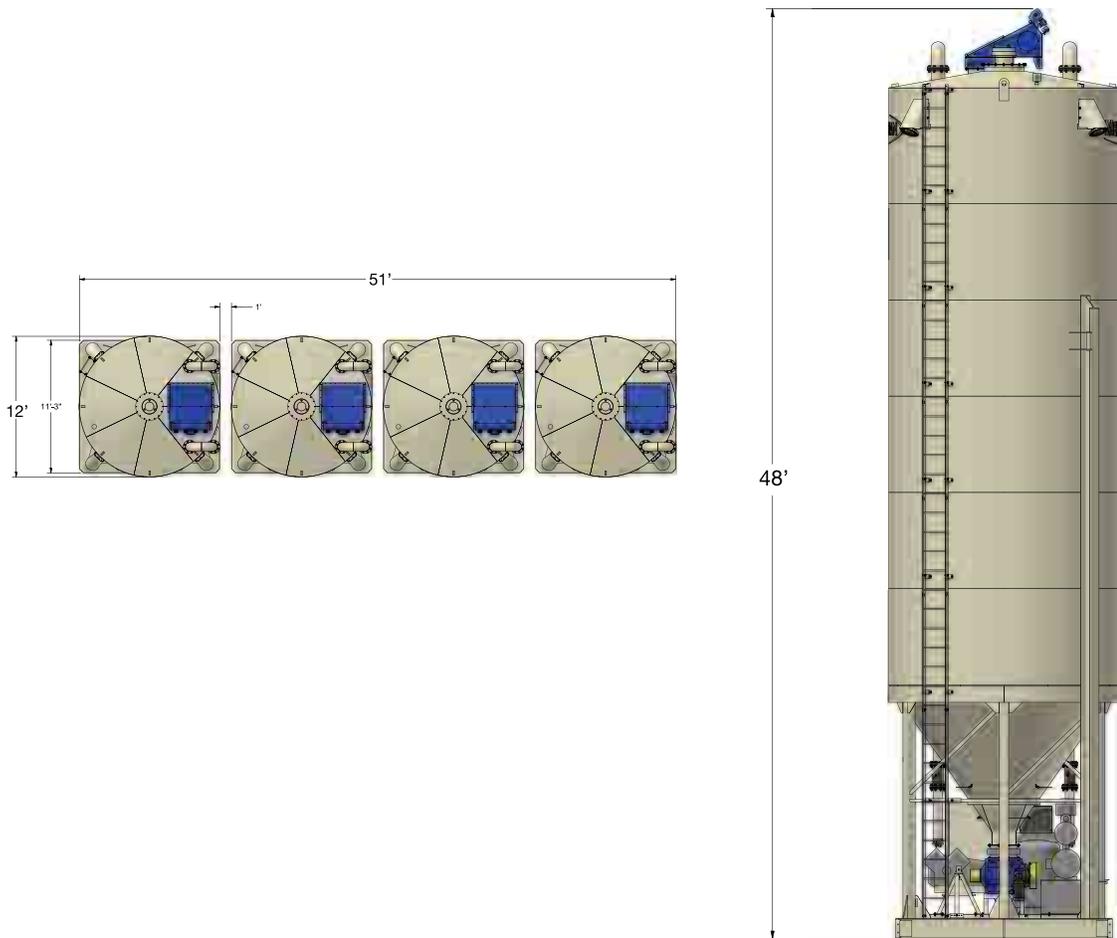


Table 1 - Silo Specifications

MODEL	CAPACITY	DIMENSIONS
MCS-160	3760 Cubic Feet	Height: 47' Base: 12' 5" x 12' 5"
	Capacity (suspended, 75lb./CF): 160 Ton   145 M.T.	
	Capacity (packed, 90lb./CF): 192 Ton   174 M.T.	

This page intentionally left blank

# LIMITED WARRANTY

## for Mobile Cement Silos

Meridian Manufacturing Inc, hereafter referred to as Meridian®, warrants the silo(s) sold by it to be free from any defect in material or workmanship under normal use and service for a period of one (1) year from the date of shipment. Meridian's Warranty is as follows: one (1) year on structural integrity, and the painted finish from the date of shipment to owner and in the manner referred to in paragraph 2 herein.

THIS WARRANTY IS SUBJECT TO THE FOLLOWING LIMITATIONS, PROVISIONS AND CONDITIONS:

1. This warranty does not apply:
  - a. To any product sold by Meridian where it is used in areas exposed to corrosive or aggressive conditions including salt water, acids, alkaloid, ash, animal waste or other corrosive chemicals from either inside or outside the silo.
  - b. For failures or defects arising out of damage during shipment or during storage on site.
  - c. To materials replaced or repaired under this warranty except to the extent of the remainder of the applicable warranty.
  - d. To damage resulting from misuse, negligence, accident or improper site preparation by others.
  - e. If the product has been altered or modified by others.
  - f. If in the case of coating failures the failure is the result of damage, lack of proper maintenance or failure to remove road salt or other contaminants that may have come in contact with the silo surface.
  - g. If the product has not been erected and installed strictly in accordance with Meridian's manuals and instructions.
2. The obligation of Meridian under this warranty shall not arise unless Meridian is notified and this warranty is presented together with a written statement specifying the claim or defect within thirty (30) days after the failure is first detected or made known to the owner and within one (1) year for general, coating claims, and structural claims, from the shipment date. Meridian, in its sole discretion shall determine if the claim is valid and whether correction of the defect or failure shall be made by repair or replacement of the materials.
3. The obligation of Meridian hereunder extends only to the original owner and to the Meridian dealer to whom the materials may have been initially sold. This warranty shall not be subject to any assignment or transfer without the written consent of Meridian.
4. The customer shall acknowledge that it has made its own independent decision to approve the use of the supplied materials and also the specific fabrication and construction procedures utilized to complete the silo, and has satisfied itself as to the suitability of these products for this particular application.
5. The foregoing sets forth the only warranties applicable to said materials and said warranties are given expressly and in lieu of all other warranties, expressed or implied, statutory or otherwise, of merchantability or fitness for a particular purpose and all warranties which exceed or differ from said warranties herein are disclaimed by Meridian.
6. The owner's sole and exclusive remedy against Meridian shall be limited to the applicable warranty set forth herein and the endorsements, if any, issued together with this document and no other remedy (including but not limited to the recovery of assembly or disassembly costs, shipping costs, direct, incidental, special, indirect or consequential damages for lost profits, lost sales, injury to person or property or any other loss, whether arising from breach of contract, breach of warranty, tort, including negligence, strict liability or otherwise) shall be available to the owner or Meridian Dealer or any other person or entities whether by direct action or for contribution or indemnity or otherwise.
7. The financial obligation of Meridian under this warranty shall be limited to the repair or replacement of the product as originally supplied and in no event shall exceed the original cost of the product supplied.
8. Meridian shall not have any obligation under any warranty herein until all accounts for materials, installation and erection of the said product thereof and for labour and other work performed by Meridian or its dealers have been paid in full by the owner.

Register your product at: [www.meridianmfg.com](http://www.meridianmfg.com)  
For warranty information send an email to: [warranty@meridianmfg.com](mailto:warranty@meridianmfg.com)

## WARRANTY REQUEST PROCEDURE

- The product must be registered with Meridian Manufacturing Inc.
- The purchaser must contact the dealer, from where the unit was purchased, immediately upon discovery of any defects.
- A completed Warranty Request (Claim) Form must be submitted by the dealer to Meridian's warranty representative for review and any subsequent course of action.
  - Warranty requests must be completed with ALL required information in order it to be considered for approval.
  - Send photographs of the entire piece of equipment, and of the specific area of concern.
- Warranty repair work will only be performed by Meridian or an approved representative of Meridian. Warranty work completed prior to Meridian's approval will NOT be honoured. Failure to follow this procedure may affect any or all of this warranty.
- All warranty requests will be adjudicated at the sole discretion of Meridian and in accordance with the terms and conditions of the warranty.



(800) 665-7259 | [www.meridianmfg.com](http://www.meridianmfg.com)