



MINING STORAGE

SMOOTHWALL SILOS | BOLT TOGETHER SILOS | MOBILE SILOS | STRUCTURES



Meridian has developed many innovations for storing commodities such as cement, fly ash, ammonium and explosives used in the mining industry. Sealed fittings and other options control dust and keep moisture out while reducing the environmental impact of storing these commodities. Add the vibrator pads and fluidizer jets for easy unloading and free flowing discharge.



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MOBILE CEMENT SILOS

The all new Meridian MCS-160 is the versatile cement storage solution. Designed to be easily transported and relocated on a heavy duty trailer, it allows for extremely practical and dependable storage from site to site.



TRANSFER SYSTEM

- 60HP Blower Package with TEFC Motor & Coupling
- Silencer System Pre-Cleaner
- Pressure Relief Valve
- Heavy-Duty Base
- Smoot Rotary Air Lock
- 2HP 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 & End Plates
- Low Pressure Air Purge System
- Maximum Output @ 100% is 2688 Ft³/Hour



FILLING

- Two 5" Lines with Pinch Valve
- Fill Line Overfill Control System
- Silo Top Dust Collector
- High Level Indicator



AIR CONTROL

- 7.5HP 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



CONTROL PANEL

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



Capacity	Dimensions
3,540 Cubic Feet	Height: 487'
Capacity (suspended, 75lbs./CF): 160 Ton 145 M.T.	Base: 12' 5" X 12' 5"
Capacity (packed, 90lbs./CF): 192 Ton 174 M.T.	11.5' Silo Diameter



SMOOTHWALL CEMENT SILOS



Model	Cubic Feet	Tons (IMP)	Tons (Metric)
910-55	788	35	32
915-55	1107	50	45
920-15	1425	64	58
1215-55	2059	93	84
1220-55	2624	118	107
1230-55	3755	169	153
1415-55	2885	130	118
1420-55	3654	164	149
1430-55	5194	233	212

STANDARD FEATURES

- Smooth Interior Finish for total easy cleanout
- Engineered to 90 lbs./CF. Volume Calculated for 90 lbs./CF.

AVAILABLE OPTIONS

- Steep Cone
- Aeration Pads
- Pneumatic Fill System
- Venting System
- PVR Valve
- Butterfly Discharge Valve
- Customized Discharge Clearance

BOLT TOGETHER SILOS



Meridian SmoothWall Bolt-Together Silos are the ultimate large capacity silo. With fewer, larger pieces the Meridian BTS series are easier to assemble in the field. All bolts are on the exterior of the silo with a superior connection assembly for ease of assembly and durability.

FEATURES

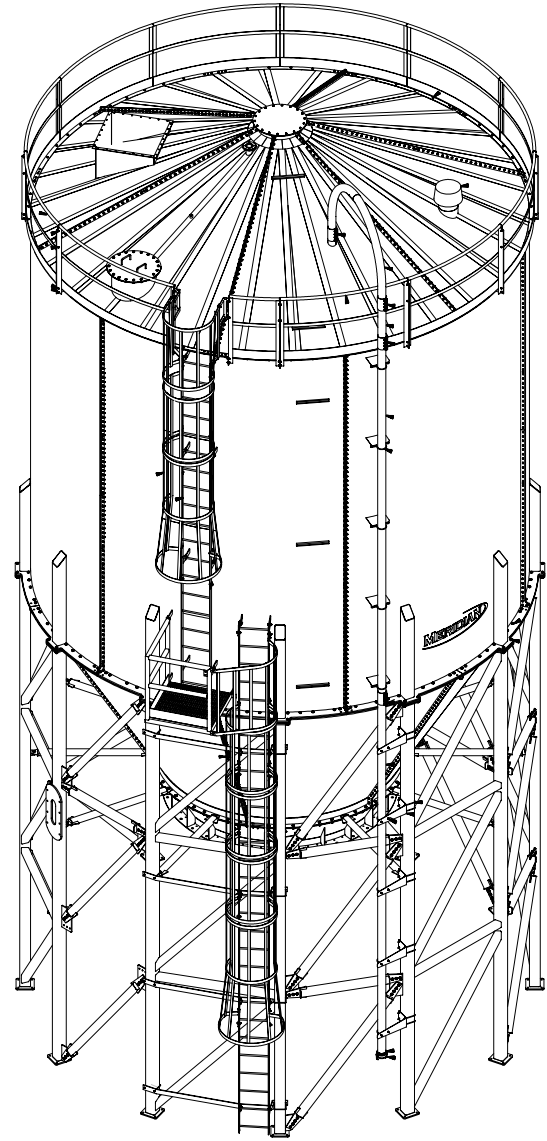
- Engineer Designed for up to 115 lbs./CF
- Various sizes up to 848 Imp. Tons
- 10 Year Structural Warranty
- Powder Coat Finish

OPTIONS

- Butterfly Valve gate
- Aggregate R&P Slide Gate
- 4" Pneumatic Fill System
- 8" Vent Pipe
- Custom Under Gate Clearance
- OSHA Ladder & Cage
- Catwalks
- Skids on Bins up to 230 Imp. Ton/1620
- Spiral Staircases

Model	Diameter	Cubic Feet	Tons (IMP)	Tons (Metric)
BTS-2340	23'	18,810	846	768

Capacity calculated at 90lbs/CF.



STRUCTURES

In addition to storage solutions, Meridian offers a wide range of structural options such as drive-thru systems, ladders, platforms, staircases, towers, and walkways to make your site as efficient and safe as possible.

Structures are built to the national building codes (IBC/ ASCE 7 or NBC) and walking and working surfaces are built to local OSHA/OH&S regulations.



EMULSION & AMMONIUM NITRATE SILOS



Meridian has supplied the mining industry with all-welded Emulsion and Ammonium Nitrate Silos for many years. We build to our customer's specifications with many options available, such as standard stand alone tanks or overhead loadouts with a drive-thru structure. They are engineered and designed to your specific application allowing you to build an explosives manufacturing facility at your site.

FEATURES

- Safe and secure storage of bulk emulsion products.
- All Welded Carbon steel powder coated construction for secure weather proof storage
- Engineered for many years of secure storage
- Pressure tested prior to coatings
- Powder coated interior and exterior for many years of trouble-free storage.

Model	Cubic Feet	Tons (IMP)	Tons (Metric)
1210	1514	47	43
1215	2080	54	49
1220	2647	79	72
1230	3777	115	104
1315	2480	74	67
1320	3144	94	85
1330	4471	136	123
1415	2642	82	74
1420	3358	103	93
1430	4790	147	133

Welded silos are available up to 18' diameter, 272 Imp. tons, but sizes over 14' are only available in certain regions.

