

# AESCO/MADSEN®



**Self-Erect Silos by AESCO/MADSEN**



**AESCO/MADSEN** manufactures two self-erecting silos called the **WM-Series**. The **WM-50** has a 50-ton silo and the **WM-80** has an 80-ton. The **WM Series** comes complete with a drag elevator, silo, hydraulic erection package and a portable package.

The silo and drag conveyor are erected into place by dual hydraulic cylinders. They are driven by a gasoline engine pump system with a reservoir and oil filter.

The cylinders lift the drag conveyor. A steel cable connects the silo from the drag conveyor and pulls the silo up into place. The silo pivots on the frame and once it is in place, it is pinned to the frame. One man can complete this process in less than fifteen minutes!

The portable package includes a heavy-duty tubular frame with support pads to grade, fifth-wheel kingpin trailer hitch and landing gear with manual hand crank. It also has air brakes, dual tires on axles (see chart #1 for quantity of axles), mud flaps and United States Department of Transportation (USDOT) approved lighting.

All of the electrical components are prewired to the enclosures and are weather proof with quick disconnects. They are mounted on the silo and drag conveyor.

A caged access ladder, tubular railings and solid steel toe kick plates on silo are standard equipment on both **WM-Series** models.

### **Silo**

The top of the silo has a skid-resistant steel platform. The silo barrel is rolled from 1/4" thick steel plate and features a 2" thick high temperature, fiberglass blanket insulation. The top of the silo has a 4" thick and silo cone has a 3" thick, high temperature, fiberglass blanket insulation. A galvanealed steel covering is over the insulation. The silo cone is sloped at a 55 degree angle with a 34" round opening on the bottom. Pneumatically operated dual clamshell discharge gates are mounted to the bottom of the silo.



**A gasoline driven, hydraulic power package is included on all WM-Series silos.**



**The 80-ton silo in transportation mode: One load for the drag and silo.**

## Drag Conveyor

Three sizes of drag conveyors are available on the **WM Series** self-erect silos. They feature full-length steel casing covers that are hinged in 4' long sections that are easy to remove.

Full length 24" wide drag conveyor has a 1/2" wear plate that is standard equipment on the bottom of the drag. Full-length 5/8" thick cast wear resistant floor liners are standard equipment on the 30" and 36" drags. This gives both models of the **WM-Series** a long life. The floor liners are cast diagonally for smooth operation. Full length 1/2" thick, 5" high, AR wear-resistant side liners are bolted in place and "lock" the floor liners in place.

The drag conveyor drive features a split head sprocket, reducer, open mesh belt guard and 1800-rpm high efficiency motor. The 30" and 36" drag conveyors feature dual shaft-mounted gear reducers for balanced operation. The chain is a through-hardened roller chain with heavy-duty drag slats bolted to the chain. Hold down idlers are mounted in the drag conveyor with anti-friction bearings.

A pneumatically operated bypass gate is installed on the drag to discharge reject material to the ground. The drag conveyor has a manually adjusted tail shaft tensioning assembly for easy drag chain tensioning. A 4000-lbs. pneumatically operated, dual clamshell gate batch hopper is mounted to the drag. A timer, either from the silo control panel or optional LC-2000 computerized control system, controls the batch hopper. This batcher cycles between trucks loading out of silo when the optional LC-2000 computerized loadout control is used.

### "WM" Series Equipment Options

- Reverse weigh silo loadout with LC-2000 computerized control system and load cells.
- Chrome Carbide floor liners.



**4,000 lbs. batch hopper is bolted to the drag conveyor for easy loadout operation.**



**Drag conveyor by AESCO/MADSEN on the WM-80.**

# SELF-ERECT SILO SPECIFICATIONS

<b>Drag Conveyor</b>	<b>WM-50</b>	<b>WM-80</b>
<b>240 TPH</b>	<b>24"</b> Single 4" pitch chain with 40 HP drive	<b>24"</b> Single 4" pitch chain with 60 HP drive
<b>300 TPH</b>	<b>30"</b> Dual 4" pitch chain with 50 HP drive	<b>30"</b> Dual 4" pitch chain with 75 HP drive
<b>400 TPH</b>	<b>36"</b> Dual 4" pitch chain with 60 HP drive	<b>36"</b> Dual 4" pitch chain with 100 HP drive
<b>Overall Shipping Dimensions</b>	<b>13'-10" Wide x 14'-0" High x 51'-10" Length</b>	<b>13'-10" Wide x 14'-0" High x 60'-9" Length</b>
<b>WEIGHTS</b>	<b>Kingpin: 18,700 lbs. Tandem: 41,000 lbs. Total: 59,700 lbs.</b>	<b>Kingpin: 25,100 lbs. Triple: 55,000 lbs. Total: 80,100 lbs.</b>

<b>SILO</b>	<b>WM-50</b>	<b>WM-80</b>
<b>Capacity (based on 110#/ft. 3)</b>	<b>50-Tons</b>	<b>80-Tons</b>
<b>Drive thru Dimensions</b>	<b>12' Wide x 12' High</b>	<b>12' Wide x 12' High</b>
<b>Overall Silo Dimensions</b>	<b>9'-10" Dia. x 16'-3"</b>	<b>9'-10" Dia. x 22'-6"</b>
<b>Axles</b>	<b>2</b>	<b>3</b>



**50-ton Silo by AESCO/MADSEN.**

**Call or Email Your AESCO/MADSEN Sales  
Rep Today**

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