

Ez-Flo Continuous Weigh Scales-Silos

PLANT EQUIPMENT SALES SERVICE
CLARENCE RICHARD COMPANY

3908 Tonkawood Road, Minnetonka, MN 55345

800-372-7731 952-939-6000 FAX 952-939-1026

email clarence@clarencrichard.com web www.clarencrichard.com

Silo Usage Application Data Sheet 4 cubic feet per Barrel (BBL)

350 BBL

450 BBL



Contact Information

Date:	
Contact/User Name	
Company Name	
Company Address	
Company City, State, Zip	
Contact Phone	
Contact Secondary Phone	
Sales Representative	

Application Information

Application: <i>Describe the application in which the silo will be placed and used. Pictures and sketches are required.</i>	
Silo Operation Objectives: <i>(Blending Material Continuously with another material, Batching Control)</i>	
Flow Rate Range Requirements during Continuous Blending or during Batch Cycle: <i>(i.e 3.5 to 10 tons per hour or 50 to</i>	

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<i>130 pounds per minute)</i>	
If Batching, 1) size of Batch and 2) length of time Batch will be discharged into the process	
Measurement Accuracy Required: (within x% of reading)i.e. 10%, 1% or .5%	
Data Requirements: Material Totalizer(Pounds, tons, Kilograms, tonnes, etc.)	
Data Requirements: Material Flow Rate, (Tons per hour or Pounds per minute, etc.)	
Data Display Location: (Where does data need to be seen or modified.e.g. Control Room or at Silo)	
Silo Location: If Silo Controls are to be placed away from silo; will 175 feet of extension cord be long enough?	
Describe any Environmental Conditions (caustic, explosive, high temperature, temperature variations, out door)	

Material Information

Materials Being Measured: (fly ash, hydrated lime, cement, hot aggregate dust, crushed lime, sand, dolomite)	
MSDS Sheet is required. Is one being provided with this Application Data Sheet?	
Material Density: (lbs/square foot)	
Material /Environment Temperature Ranges:	
Material Moisture % Range	
Provide angle of repose to help determine flowability.	

Material Flow Information

Describe Conveying Equipment and Transitions evacuating the Flow Scale (auger, conveyor, mixer, pneumatic conveying, etc)	
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<p>Describe any machinery and processes creating vibrations transmitted to the Flow Scale.</p>	
<p>Describe any Air Flows or steam through Scale or Air Pressures above or below atmospheric. Empty Vanes of an Air Lock can introduce pressure into the flow scale chamber</p>	
<p>Describe Flow Rate Consistency (<i>i.e. Flow rate remains consistent. or material feeding scale bridges regularly causing erratic flows.</i>)</p>	
<p>Describe Environmental Conditions For the Remote Control Box (<i>indoors, out doors, hot, cold, windy, rain, humidity, hose down area, dusty, dirty</i>)</p>	
<p>Describe any Material Flow Ability and Problem Considerations (<i>sticky, chunky, high moisture content, bridging, choking</i>).</p>	

Misc. Considerations

<p>Delivery Needs (<i>'Need By' date</i>)</p>	
<p>Material Calibration Considerations (<i>how do you plan on capturing a measured weight run through the flow scale so as to compare to captured material weighed on separate scale. Option: Calibration Slide Gate, Calibration Divert Stand.</i>)</p>	
<p>Installation Considerations <i>size - weight restriction, Scale Discharge Height, Scale excessive air flow through the scale – airlock-venting option requirement</i></p>	
<p>Mechanical Considerations</p> <p><i>*Discharge Tapered Transition – Square to Round.</i></p> <p><i>*Calibration Jam Gate – 16” Square to 10” or 12” (to be mounted under</i></p>	

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customers discharge auger)

**Scale Discharge Divert Chute (typically scale is mounted on top so product discharges straight through or is diverted to a container used for calibration)*

**Turnkey Service Requirements*

**Custom Engineering*

**When possible, send pictures to clarence@clarencerichard.com.
Please sketch a drawing of process equipment lay out on back.**

Common to both 350 BBL Silos- 60 degree Cone



Fill pipe with baghouse, Cone aeration, Level Bindicators, Air Dryers, Cone Vibrator Portable with pintel hitch (1 ton truck with 2000 lb tongue weight hitch can pull it) . with Auger side discharge.. 12' to ground discharge height. 10" Diameter Scale Discharge.

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Continuous weigh scale with Auto/Manual batching and blending controls with 175 feet of control wire with Variable speed 12" discharge auger flow control

Benefits.

1 ton truck with 2000 lb tongue weight hitch can pull it.

8' Discharge height

Medium Volume- May not need storage pig to feed silo.

Steep cone walls – reduces bridging problems

Disadvantage

Pad with anchor bolts required.

Crane erection required.

Common to both 450 BBL Silos -50 degree cone



Fill pipe with baghouse

Cone Aeration

Level Bindicators

Portable with fifth wheel... Tractor Pull

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On 15 foot stand with Auger side discharge.

Continuous weigh scale with Auto/Manual batching and blending controls with 175 feet of control wire.

SN 2031... with Variable speed 12" vane feeder flow control..

Benefits

15-18' Discharge height

Higher Volume- May not need storage pig to feed silo.

Disadvantage

Pad with anchor bots required.

Crane erection required

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