



DIVERSIFIED STORAGE SYSTEMS
(888) SILO-SYS (888) 745-6797

PRODUCT CATALOG



1135 E. Wooley Rd. Ph # 805-247-0418
Oxnard CA, 93030 Fax # 805-247-0246

www.CementSilos.com



DIVERSIFIED STORAGE SYSTEMS
 (888) SILO-SYS (888) 745-6797

POSITIVE FEED SILOS



Silo Description

Portable Silos- specially designed portable vertical storage system for bulk powder products.

From **1200cf** to **4800cf**

Featured Options

- Dual Feed Positive Drive
- 7", 10" or 12" Diameter Auger
- 7.5hp to 25hp 3 Phase Motor & Gear Box Drive
- 150sq. ft to 400sq. ft. Dust Collector
- Starter Panel
- Upper & Lower Level Indicator with Light and Horn Alarm
- Cone Fluidizers
- Caged Ladder & Rail Package
- Heavy Duty Axle Trailer with Light Package
- Other Custom Options Available to Fit Your Needs



Pictures above are for general layout purposes. Many detail features are left out or may be different from actual silo.

Specifications	1400	2200	2800	4800
Storage in Cubic Ft	1400	2200	2800	4800
Ton Capacity **	60	96	123	210
Tank Diameter	8'-6"	12'	12'	12'
Height***	37'	33'-6"	39'-6"	57'-6"

APPLICATIONS: [Cement](#) - [Fly Ash](#) - [Lime](#) - [CKD](#) - [Sand](#) - [Bentonite/Clay](#) - [Calcium Carbonate](#) - [Chemical Powder Products](#) - [Agriculture Powder Products](#) - [Food Grade Dry Bulk Products](#)

**Cement can weigh between 88-94 lbs. per cubic foot depending on how aerated it is.

*** Height is standard silo with a 150sq ft dust collector.

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BASIC SILOS



Silo Description

Basic Silos - specially designed portable vertical storage system for bulk powder products.

From **1200cf** to **4800cf**

Featured Options

- Gravity Feed
- 150-400sq. ft. Dust Collector with Air or Electric vibrators
- Starter Panel
- Upper & Lower Level Indicator with Light and Horn Alarm
- Cone Fluidizers
- Caged Ladder & Rail Package
- 10" or 12" Lower Discharge
- Non-Portable or Portable
- Many custom options available to fit your needs

Pictures above are for general layout purposes. Many detail features are left out or may be different from actual.

Specifications	1080	1400	2200	2800	4200	4800
Storage in Cubic Ft	1080	1400	2200	2800	4200	4800
Ton Capacity **	43	60	96	123	168	210
Tank Diameter	8'-6"	8'-6"	12'	12'	12'	12'
Height***	31'	37'	33'-6"	39'-6"	51'-6"	57'-6"

APPLICATIONS: [Cement](#) - [Fly Ash](#) - [Lime](#) - [CKD](#) - [Sand](#) - [Bentonite/Clay](#) - [Calcium Carbonate](#) - [Chemical Powder Products](#) - [Agriculture Powder Products](#) - [Food Grade Dry Bulk Products](#)

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*** Height is standard silo with a 150sq ft dust collector.

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PORTABLE LO-PROFILE BATCHING SILOS



Height 13'-10" Width 8'-6" Length 26'-0"



Portable Lo-Pro batching silo

- 800 CF. capacity (30 ton) **Cement
- Low-Pro design.
- 10 HP screw conveyor 12cu. ft. per minute discharge capacity.
- Loss weight batching computer.
- Cone fluidizer system with distribution tank.
- 4- speed jacks.
- Overload protection with high level alarm.

***Cement can weigh between 88-94 lbs. per cubic foot depending on how aerated it is.*

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PORTABLE LO-PROFILE 300 SILO



Portable Lo-Pro 300 silo

- 1200 CF. capacity (48 ton) **Cement
- Low-Pro design.
- 10 HP screw conveyor 12cu. ft. per minute discharge capacity.
- Cone fluidizer system with distribution tank.
- 4- speed jacks.
- 225sq. ft Dust Collector

***Cement can weigh between 88-94 lbs. per cubic foot depending on how aerated it is.*

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PD TANK 2250



Pictures above are for general layout purposes. Many detail features are left out or may be different from actual silo.

Silo Description

PD-TANK 2250™ is a specially designed portable vertical storage system for bulk powder products.

Some innovative features include: dual discharge systems (gravity or pneumatic), stable height-to-width ratio, low ground pressure (98 PSI) when fully loaded, oversize discharge piping for high speed unloading, integrated vent pipe to discharge pipe (no need for two hookup hoses), easy cleanout, level indicator option available, one valve operation and more practical than a guppy for long term storage applications.

Silo Specifications

Silo Capacity (c.f.)	2250 C.F.
Silo Capacity (Cement)	88 - 94 tons*
Operating Pressure	14.5 psig
Bottom Aeration	HV Flow-Cones (4)
Discharge Pipe	5" Sch. 40
Fill Pipe	5" Sch. 40
Vent Pipe	4" Sch. 40
Gravity Secondary Discharge	10" w/ Butterfly Valve
Top Manway	20" Press. Dome Lid
Bottom Manway	20" Press. Dome Lid
High Level Indicator	Optional
Low Level Indicator	Optional
Standard Operating Pressure	10 - 12 PSI
Over pressure relief settings	15 PSI
Pressure Gauges (2)	1-30 PSI

* Cement can weigh between 88 - 94 lbs. per cubic foot depending on how aerated it is.

PD-TANK 2250™ storage system has "patent applied for" components and proprietary systems. These unique system designs are the property of Diversified Storage Systems.

Patent Pending

Many design details on this silo are proprietary to DSS

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SUPER SAX 1500



Silo Specifications

Silo Weight (empty)	4,500 Lbs.
Silo Size	170 Cubic Feet
Silo Capacity	15,000 Lbs. (7 1/2 tons)
Dimensions	9'H X 8'-6"W X 14' L
Discharge Height	5' to 8'
Conveyor Type	7" Screw Conveyor
Conveyor Drive	Hydraulic
Power	Honda Gas Motor
Control Power	12V DC
Scale Type	Electronic Load Cell (4)
Scale Controller	GSE 465
Batch Software	Loss-weight (DSS)

Silo Description

SupersaX silo system is a portable self-contained silo designed to store dry bulk products (cement) to be used on job sites or in-plant applications. The design has many features that make the *SupersaX* silo system a must need in applications where semi-bulk or super sacked products are used. The silo can store up to 15,000 Lbs. of bulk product to be metered out using our exclusive loss-weight batching system. This allows the operator the precise control for batching product into a mixer or a process. The silo has adjustable legs to allow for ease of transport and proper discharge height under the conveyor. Filling the silo is done by using a forklift to lift the product over hatches on top of the silo. These hatches are designed for quick access and water tight to prevent moisture contamination. The silo has a work platform to allow operator safe access to the top of the silo to assist with bag loading.



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ELECTRIC BLOWERS



Material transfer blower package.
 Compact design for easy mobility.
 Gardner Denver CycloBlower, for
 performance and reliability.

Standard Equipment

Blower - Gardner Denver positive displacement helical-lobe cycloblower with oil level site window.

Motor - TEFC, 230/460/3/60 electric motor, E Pak efficiency 1.15 S.F., Class F Insulation, non-restricted Centri pre-cleaner.

Direct Drive - Easily to rebuild, Non-lubricated EDPM Rubber element, 1.5 S.F. with guard.

Discharge Check Valve - Eliminates back-flow of material into the blower.

Relief Valve - Auto reset pressure relief valve set at 18 psig which protects blower from over pressure.

Air Pressure Gauge - 3" Liquid filled dial.

Steel Base - Steel base with a galvanized finish for long lasting durability with drilled anchor pads.

Options -
 Starter and panel

Model	50E-9LB			75E-12LB		
Performance						
Rated Pressure (PSI)	12	16	20	12	16	20
Air Flow (CFM)	488	462	451	650	626	595
Motor						
Size	50 HP			75 HP		
RPM	1750 RPM			1750 RPM		
Electrical	230/460/3/60			230/460/3/60		

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Air-MAX 12D BLOWER



Material transfer blower package. Compact design for easy mobility. Gardner Denver CycloBlower, for performance and reliability.

Standard Equipment

Blower - Gardner Denver positive displacement helical-lobe 12" cycloblower with oil level site window.

Motor - John Deere 4.5L Tier 2 Diesel Motor.

Direct Drive - Flywheel driven coupler.

Discharge Check Valve - 4" Eliminates back-flow of material into the blower.

Relief Valve - Auto reset pressure relief valve set at 18 psig which protects blower from over pressure.

Air Pressure Gauge - 3" Liquid filled dial.

Trailer Mounted - Covered Trailer for a reduced noise environment. ***

Controls - Throttle control, hour meter, motor Temperature & motor oil pressure.

*** Typical Truck blower at 10' is 94 dec. Our 12D trailer mount is 86 dec. at 10'

Model		80D-12LB		
Performance				
Rated Pressure PSI		8	12	16
Air Flow CFM		650	640	610
Motor				
Size		80 HP		
RPM		1950 RPM		
Diesel Motor		4.5 Liter		

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AIR MAX 150 DUST COLLECTOR



Collector Specifications

Total Filtration Area	150 Sq. Ft.
Air to Cloth Ratio (ACFM/Sq.')	2.5
Pressure Drop (in. H 2O)	6"
Air Capacity	375 C.F.M.
Outlet Area (Sq.)	.58
Cleaning Method	Shaker Plate
Vibrator (Air or Electric)	Rotary Style
Vibrator Air Consumption (High Press.)	8 CFM (Max)
Vibrator Power	120 V/ 1 ph
Duty Cycle	1.5 hours
Normal Operating Pressure	8 - 15 PSI *
Max Operating Pressure	20 PSI *
Over pressure relief settings	18 PSI *

** Dust Collector performance is measured by load line back pressure gauge. Truck line pressure gauge is acceptable for determining operating pressures. (See *† Below)*

Filter Bag Specifications

Filter Bag Count	18 hung style
Replacement Filter Bag Model #	DC150S
Dimensions	8" OD X 48" Height
Filter Area (Per)	8.33 Sq. '
Material Weight	9 oz. / Sq. Yd.
Fiber	100% Polyester
Construction	Spun/Spun
Permeability	25 c.f.m.
Mullen Burst Dry	500 PSI
Temperature Limit	275 Deg. F.
Efficiency (PM-10)	99.99%

Vibrator Specifications

Air Vibrator	Model V-190
VPM @ 60 PSI	4200
CFM @ 60 PSI	7.5 CFM
Noise @ 60 PSI	70 db
Control	Manual
Electric Vibrator	Model 2P-75
Voltage/amps	115v/0.5 amp
VPM	3600
Noise	60 db.
Control	Auto/Manual

Collector Performance (PM-Reg.)**

0.5 - 1.0 Micron	99.9 % Passing	0.10 % Retained
1.0 - 20.0 Micron	0.02 % Passing	99.98 % Retained
> 20.0 Micron	0.01% Passing	99.99 % Retained

** Typical Portland Cement is 44 Micron

*† Dust Collector performance can be reduced or fail if silo is overfilled. Warranty is voided if there are no silo overfill or overpressure preventing systems installed. Standard one year warranty for all actuating parts and timers (not filters). Magnehelic gauge is optional if needed.

Mounting Options

Bin Vent Mount (Silo Top)
 Base Mount (Optional Base Needed)
 Trailer Mount (Portable Applications)

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AIR MAX 225 DUST COLLECTOR



Collector Specifications

Total Filtration Area	225 Sq. Ft.
Air to Cloth Ratio (ACFM/Sq.')	2.5
Pressure Drop (in. H 2O)	6"
Air Capacity	675 C.F.M.
Outlet Area (Sq.')	.58
Cleaning Method	Shaker Plate
Vibrator (Air or Electric)	Rotary Style
Vibrator Air Consumption (High Press.)	8 CFM (Max)
Vibrator Power	120 V/ 1 ph
Duty Cycle	1.5 hours
Normal Operating Pressure	8 - 15 PSI *
Max Operating Pressure	20 PSI *
Over Pressure Relief Settings	18 PSI *

Filter Bag Specifications

Filter Bag Count	18 hung style
Replacement Filter Bag Model #	DC 225S
Dimensions	8" OD X 72" Height
Filter Area (Per)	8.33 Sq. '
Material Weight	9 oz. / Sq. Yd.
Fiber	100% Polyester
Construction	Spun/Spun
Permeability	25 c.f.m.
Mullen Burst Dry	500 PSI
Temperature Limit	275 Deg. F.
Efficiency (PM-10)	99.99%

Vibrator Specifications

Air Vibrator	Model V-190
VPM @ 60 PSI	4200
CFM @ 60 PSI	7.5 CFM
Noise @ 60 PSI	70 db
Control	Manual
Electric Vibrator	Model 2P-75
Voltage/amps	115v/0.5 amp
VPM	3600
Noise	60 db.
Control	Auto/Manual

Collector Performance (PM-Reg.)**

0.0 - 0.5 Micron	99.98% Passing
0.5- 1.0 Micron	0.02 % Passing
1.0 - 20.0 Micron	0.0% Passing

** Typical Portland Cement is 44 Micron

Mounting Options

Bin Vent Mount (Silo Top)
 Base Mount (Optional Base Needed)
 Trailer Mount (Portable Applications)

* This style unit does not use magnahelic gauge. Dust Collector performance is measured by back pressure at load line.

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SILO TOP 266 PULSE JET DUST COLLECTOR



Collector Specifications

Total Filtration Area	266 Sq. Ft.
Air to Cloth Ratio (ACFM/Sq.)	6:1
Pressure Drop (in. H 2O)	8"max †
Inrush Volume of Air Capacity	1500 cfm max
Outlet Area (Sq.)	.70
Cleaning Method	Timed Pulse Jet
Air Consumption (High Press.)	2 cfm @ 100 psi min.
Electric Solenoids/Timer System	3 / 120 Volt, 15 amp
Fan	Not Available
Duty Cycle	Continuous
Normal Bin Operating Pressure	8 - 15 PSI *
Max Bin Operating Pressure	18 PSI *
Over pressure Bin Relief Settings	12 PSI *
Collector Construction	304 Stainless Steel

* Dust Collector performance is measured by load line back pressure gauge. Truck line pressure gauge is acceptable for determining operating pressures. (See *† Below)

Filter Cartridge Specifications

Cartridge Count	7 Cartridges
Replacement Filter	PE-ST-07
Dimensions	17"L x 3"W x 36"H
Filter Area (Per)	38 Sq. Ft.
Material Weight	8oz. / Sq. Yd.
Fiber Type	Spun Bound Polyester
Cartridge Const.	Pleated Cartridge Coated
Mullen Burst Dry	388 PSI
Temperature Limit	175 Deg. F.
Efficiency (PM-10)	98.40% - (99.98% **)
Grain Loading (gr./scf)	Inlet 30, Outlet 0.01 **

Filter Installation



Collector Performance (PM-Reg.) **

0.5 - 1.00 Micron	98.2 % Passing	0.80 % Retained
1.0 - 20.00 Micron	6.0 % Passing	94.00 % Retained
> 20.00 Micron	0.8 % Passing	99.20 % Retained

Mounting Options

- Bin Vent Mount (Silo Top)
- Base Mount (Optional Base Needed)
- Trailer Mount (Portable Applications)

** Typical Portland Cement is 44 Micron

*† Dust Collector performance can be reduced or fail if silo is overfilled. Warranty is voided if there are no silo overfill or overpressure preventing systems installed. Standard one year warranty for all actuating parts and timers (not cartridges). Magnehelic gauge is optional if needed.

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AIR MAX 400 DUST COLLECTOR



Collector Specifications

Total Filtration Area	400 Sq. Ft.
Air to Cloth Ratio (ACFM/Sq.')	6 - 1
Pressure Drop (in. H 2O)	8"
Air Capacity	2400C.F.M.
Outlet Area (Sq.)	..70
Cleaning Method	Timed Pulse Jet
Air Consumption (high pressure)	3 CFM @ 80 psi min
Solenoids	3/120 Volt, 15 amp
Fan	Optional*
Duty Cycle	Continuous
Normal Operating Pressure	8 - 15 PSI

*Fan is not needed unless application requires forced ventilation

Filter Bag Specifications

Filter Cartridge Count	28 hung style
Replacement Filter Model #	BHPJF400
Dimensions	5.25" OD X 30" Height
Filter Area (Per cart)	14.28 Sq. '
Material Weight	8 oz. / Sq. Yd.
Fiber	100% Polyester
Construction	Spun/Spun
Permeability	25 c.f.m.
Mullen Burst Dry	388 PSI
Temperature Limit	175 Deg. F.
Efficiency (PM-10)	98.40% - (99.98%)

Collector Performance (PM-Reg.)**

0.0 - 0.5 Micron	99.98% Passing
0.5- 1.0 Micron	0.02 % Passing
1.0 - 20.0 Micron	0.0% Passing

** Typical Portland Cement is 44 Micron

Mounting Options

Bin Vent Mount (Silo Top)
 Base Mount (Optional Base Needed)
 Trailer Mount (Portable Applications)

* This style unit does not use magnehelic gauge. Dust Collector performance is measured by back pressure at load line.

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BAZOOKA TUBE 1200



BAZOOKA TUBE 1200 Portable transfer of super sacks to truck or rail car

Some innovative features include: (as pictured)

- 12" Auger with a 20hp electric motor - 30cfm
- WAM 400 pulse jet bag house with fan
- Hopper has integrated ducting to reduce fugitive dust
- DSL loader- electrically controlled
- Hydraulically operated height control
- Electric vibrator on hopper
- Air compressor

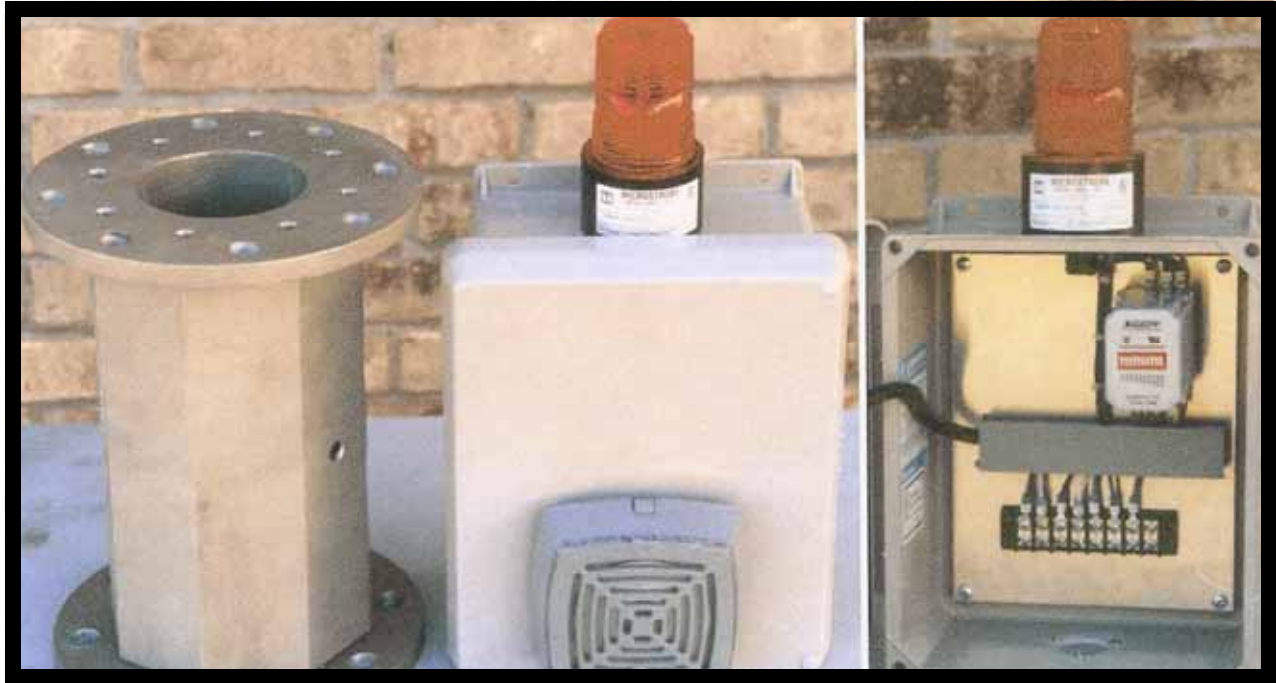
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OVERLOAD PROTECTION



Silo Over-flow Preventer System

System Description:

This system consists of a timer control box, 4" or 5" cast aluminum pinch valve w/ solenoid and regulator. The control box has an adjustable timer to control when the pinch valve activates after the high level bin indicator is tripped (bin indicator is sold separately) within 90 to 180 seconds.

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