

STALLION SERIES

HIGH PRODUCTION

Stephens 

CONCRETE PLANTS • Tompkinsville, KY

800-626-0200

www.stephensmfg.com



STALLION ROUND STORAGE SILO & BATCH SILO

Stallion Silos have several different options:

- Support structures – Drive through or Straight legs with various heights
- Silo vents – Bag type or Cartridge type are available.



374 thru 606 BBL silo constructed of 3/16" steel plate with 1/4" domed top. 837 thru 1,069 BBL with 1/4" metal in 1st band. (All two compartment silos have 1/4" in each band).

Optional Batchers Available

- A 14yd cement batcher with a lever system and one "s" type load cell is standard.
- Multiple load cell systems are available.
- Optional Batchers Vents are available: Bag or Cartridge type.

Overhead Bins and Batcher

Over Head Bins:

- 70-200 ton capacity available with multiple compartments and configurations
- "In-line" bins will have two gates per compartment operated by 5" cylinders
- Optional weld in or bolt in A/R 400 or Poly liners are available.



Aggregate Batcher

- 12 Yard capacity with 40,000 lb scale lever system. One "s" type load cell, is standard. (Multiple load cells available)
- 580 Cu. Ft. capacity at water level.
- Sloping sides fabricated of 1/4" plate, 3/16" remainder.
- Two discharge openings in batcher with one (1) extra long double acting clamshell gate, under both openings. Gear type gate with six (6) 3/4" teeth per gear. Gate has permanently lubricated bronze bushing. Gate will be actuated by two 5" air cylinders, with flo-restrictors mounted in solenoid, (NOTE: If conveyor comes out the "wide side" the batcher will have only one discharge opening, one cylinder and solenoid for gate.)
- A/R400 & Poly liners are available welded or bolted in.



Transfer Conveyor & Electrical System

- 30" channel frame transfer conveyor
- Belt wiper replaceable polyurethane blade and tail pulley guard.
- 20 HP 3 phase TEFC motor 230/460 volts.
- Stephens' conveyors are rated by the CPMB (Concrete Plant Manufacturers Bureau) for accurate discharge rates.
- Conveyor vulcanized at the factory

Optional 36" belt available.

Plant power panel: 200 AMP Main disconnect mounted on steel panel with protective top cover and lockable doors. Junction box includes pre-wired terminal strips for electrical wiring from all types of motors and starters. All units are wired in liquid tight flexible metallic conduit. Each motor is individually protected. Power panel is mounted on aggregate batcher section, away from moving conveyor components. Panel will be third party UL approved when it leaves the factory (or CSA 3rd party approved).

Voltage
460 volts 3 phase with maximum of
a 200 AMP disconnect

If 230 volts 3 phase, single phase, or large disconnect desired, please consult factory.

Push button control box is included. Control panel includes all necessary push button controls for Stephens Mfg. supplied equipment. If controls are required for existing equipment or equipment from other manufacturers, please consult factory. Push button control box includes 110' of control cable from power panel to 110-volt control box with plug in receptacle.

Note: All controls 110V.

Optional items available include:
(400 and 600 AMP Disconnect)
(575 volt or 208 volt)

Electrical Systems



Let Stephens Custom build your plant.

OTHER STALLION FEATURES:

- 3" Badger water meter is standard. Optional water batcher and water holding tank available
- 15hp 240 gallon air compressor is standard. Larger compressors and rotary compressors are available.

OPTIONAL FEATURES

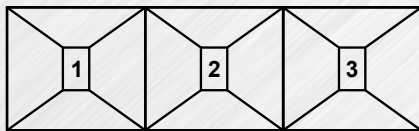
- Stephens can custom build your plant to include many optional features
- Specific seismic and wind load requirements. (unless noted each quote is for zone 1 and 110 mph)
- Stephens will specifically design each plant to match the required specifications for the delivery site.

EXTRA SAFETY FEATURES:

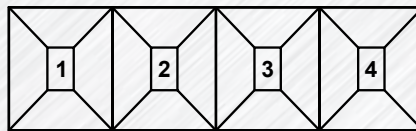
- Stephens will attempt to build guards, cages, ladders and platforms to satisfy OSHA requirements. Extra and additional safety features are available. Consult factory for complete List of options available
- Telescopic Boot Assembly (for plants with front and rear discharge trucks)
- Moisture Probe Sleeves
- Overfill Protection systems
- Silo Aeration Systems

BIN CONFIGURATIONS

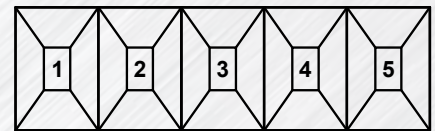
NOTE: CONSULT FACTORY FOR OPTIONAL CONFIGURATIONS.



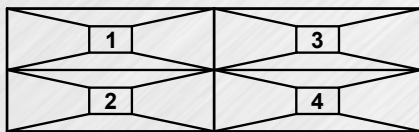
3 IN-LINE



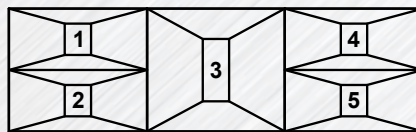
4 IN-LINE



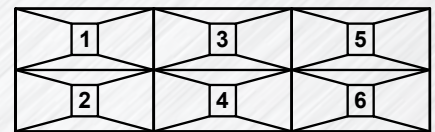
5 IN-LINE



4 WINDOW PANE



5 WINDOW PANE



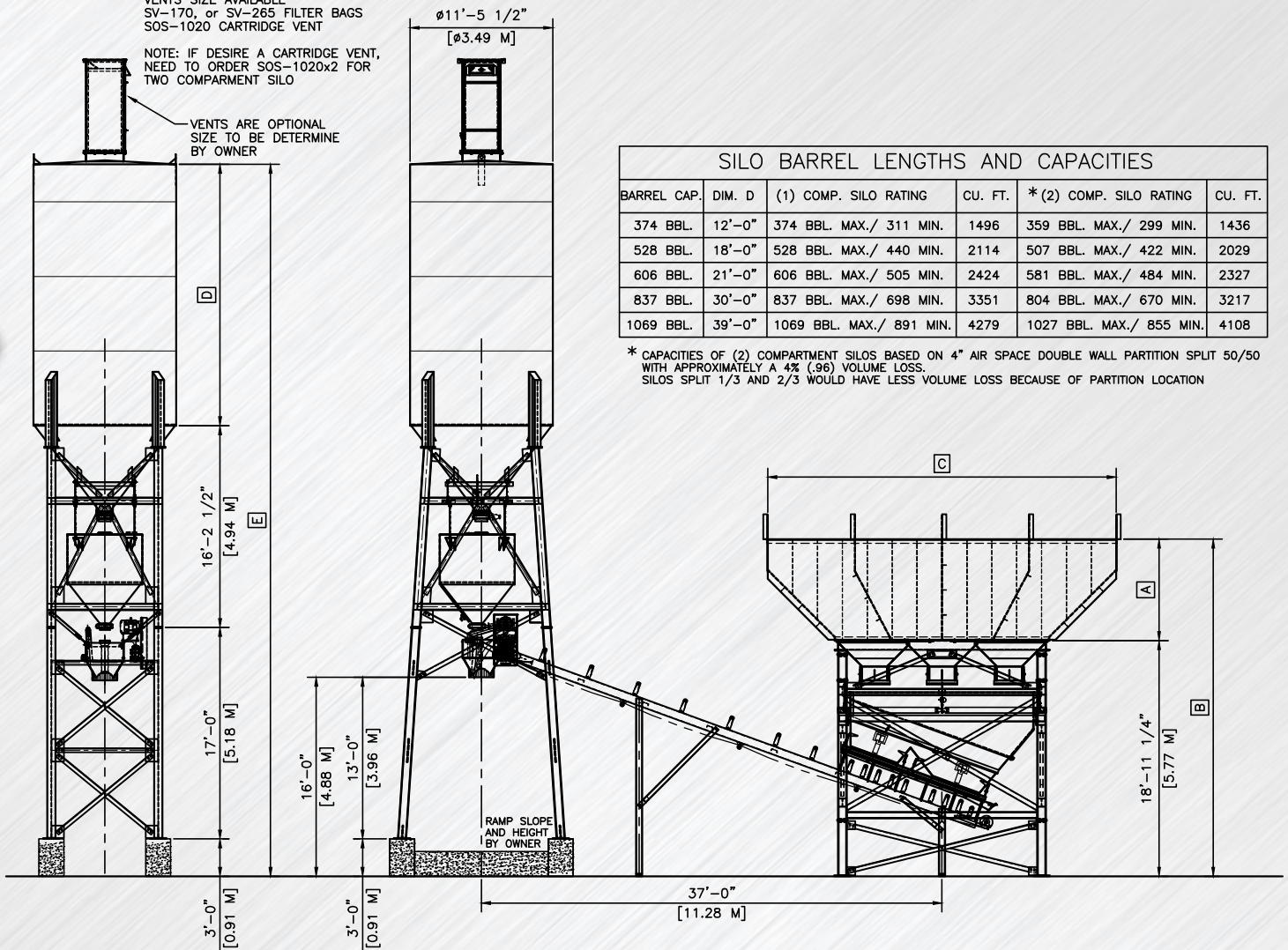
6 WINDOW PANE

Stationary Batching Silo

VENTS SIZE AVAILABLE.
SV-170, or SV-265 FILTER BAGS
SOS-1020 CARTRIDGE VENT

NOTE: IF DESIRE A CARTRIDGE VENT,
NEED TO ORDER SOS-1020x2 FOR
TWO COMPARTMENT SILO

VENTS ARE OPTIONAL
SIZE TO BE DETERMINE
BY OWNER



SILO BARREL LENGTHS AND CAPACITIES

BARREL CAP.	DIM. D	(1) COMP. SILO RATING	CU. FT.	* (2) COMP. SILO RATING	CU. FT.
374 BBL.	12'-0"	374 BBL. MAX./ 311 MIN.	1496	359 BBL. MAX./ 299 MIN.	1436
528 BBL.	18'-0"	528 BBL. MAX./ 440 MIN.	2114	507 BBL. MAX./ 422 MIN.	2029
606 BBL.	21'-0"	606 BBL. MAX./ 505 MIN.	2424	581 BBL. MAX./ 484 MIN.	2327
837 BBL.	30'-0"	837 BBL. MAX./ 698 MIN.	3351	804 BBL. MAX./ 670 MIN.	3217
1069 BBL.	39'-0"	1069 BBL. MAX./ 891 MIN.	4279	1027 BBL. MAX./ 855 MIN.	4108

* CAPACITIES OF (2) COMPARTMENT SILOS BASED ON 4" AIR SPACE DOUBLE WALL PARTITION SPLIT 50/50
WITH APPROXIMATELY A 4% (.96) VOLUME LOSS.
SILOS SPLIT 1/3 AND 2/3 WOULD HAVE LESS VOLUME LOSS BECAUSE OF PARTITION LOCATION

70 TON - 200 TON

STATIONARY STALLION BATCH PLANT DIMENSIONS CHART

DESCRIPTION	UNITS	A	B	C	D	E	CAPACITIES CU YARDS CU METERS
70 TON AGG. BIN	STD.	3'-2"	22'-1 1/4"	25'-10 1/4"	---	---	51.85
	METRIC	.97 M	6.74 M	7.88 M	---	---	39.6
100 TON AGG. BIN	STD.	5'-1 1/2"	24'-0 3/4"	29'-9"	---	---	74.07
	METRIC	1.56 M	7.33 M	9.07 M	---	---	56.0
120 TON AGG. BIN	STD.	6'-1 1/2"	25'-0 3/4"	28'-0"	---	---	88.8
	METRIC	1.87 M	7.64 M	8.53 M	---	---	67.8
150 TON AGG. BIN	STD.	8'-2"	27'-1 1/4"	28'-0"	---	---	111.11
	METRIC	2.49 M	8.26 M	8.53 M	---	---	84.9
200 TON AGG. BIN	STD.	11'-4"	30'-3 1/4"	28'-0"	---	---	148.1
	METRIC	3.45 M	9.23 M	8.53 M	---	---	113.2
374 BARREL CEM. SILO	STD.	---	---	---	12'-0"	48'-2 1/2"	55.4
	METRIC	---	---	---	3.66 M	14.69 M	42.3
528 BARREL CEM. SILO	STD.	---	---	---	18'-0"	54'-2 1/2"	78.2
	METRIC	---	---	---	5.49 M	16.52 M	59.7
606 BARREL CEM. SILO	STD.	---	---	---	21'-0"	57'-2 1/2"	89.7
	METRIC	---	---	---	6.40 M	17.44 M	68.5
837 BARREL CEM. SILO	STD.	---	---	---	30'-0"	66'-2 1/2"	124.0
	METRIC	---	---	---	9.14 M	20.18 M	94.8
1069 BARREL CEM. SILO	STD.	---	---	---	39'-0"	75'-2 1/2"	158.3
	METRIC	---	---	---	11.89 M	22.92 M	121.0

NOTE: TO CONTINUALLY UPDATE AND IMPROVE OUR PRODUCT WE RESERVE
THE RIGHT TO AMMEND OUR STANDARD SPECIFICATIONS WITHOUT NOTICE.



Why a Stephens?

- Owned by Stephens family since 1957
- Reputation of honest, reliable and second to none sales and service
- In-house CNC/Machine shop
- NTEP Certified in house scales to keep load cell size and quantity down
- Simple and easy to service and maintain, features standard off the shelf parts
- Each plant is designed for your seismic requirements

Proud
Members of



Stephens
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