



Stephens
CONCRETE PLANTS • Tompkinsville, KY

STALLION SERIES

HIGH PRODUCTION



STALLION ROUND STORAGE SILO & BATCH SILO

Stallion Silos have several different options:

- Different support structures – Drive through or Straight legs with various heights
- Different type silo vents – Bag type or Cartridge type

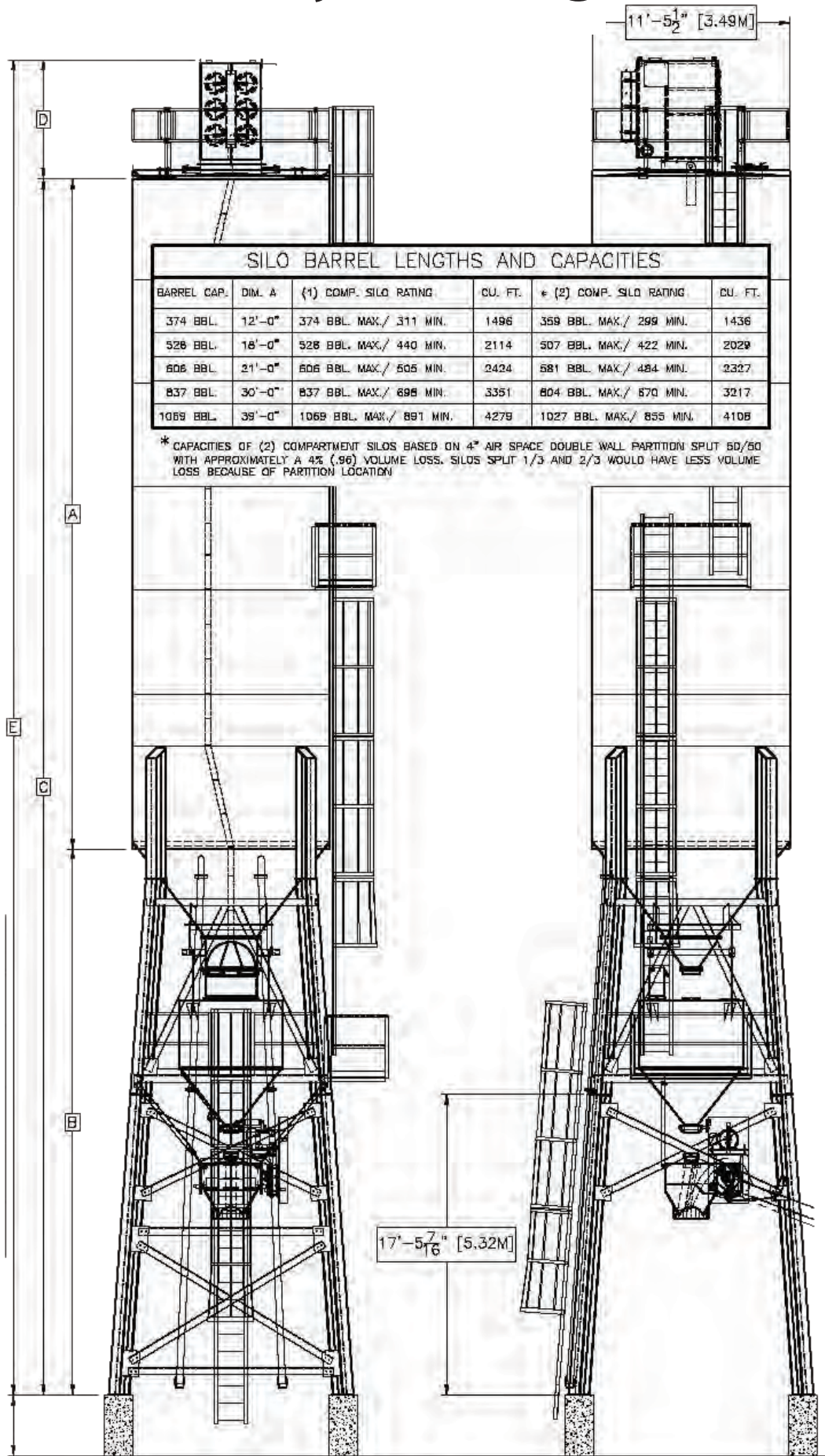


Optional Batchers

- 2YD - 14YD lever system, one "s" type load cell

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

Stationary Batching Silo



Transfer Conveyor & Electrical System

- 30" x 44'6" channel frame transfer conveyor
- Wiper replaceable poly-eurothane 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.

Electrical Systems

- **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.

Voltage

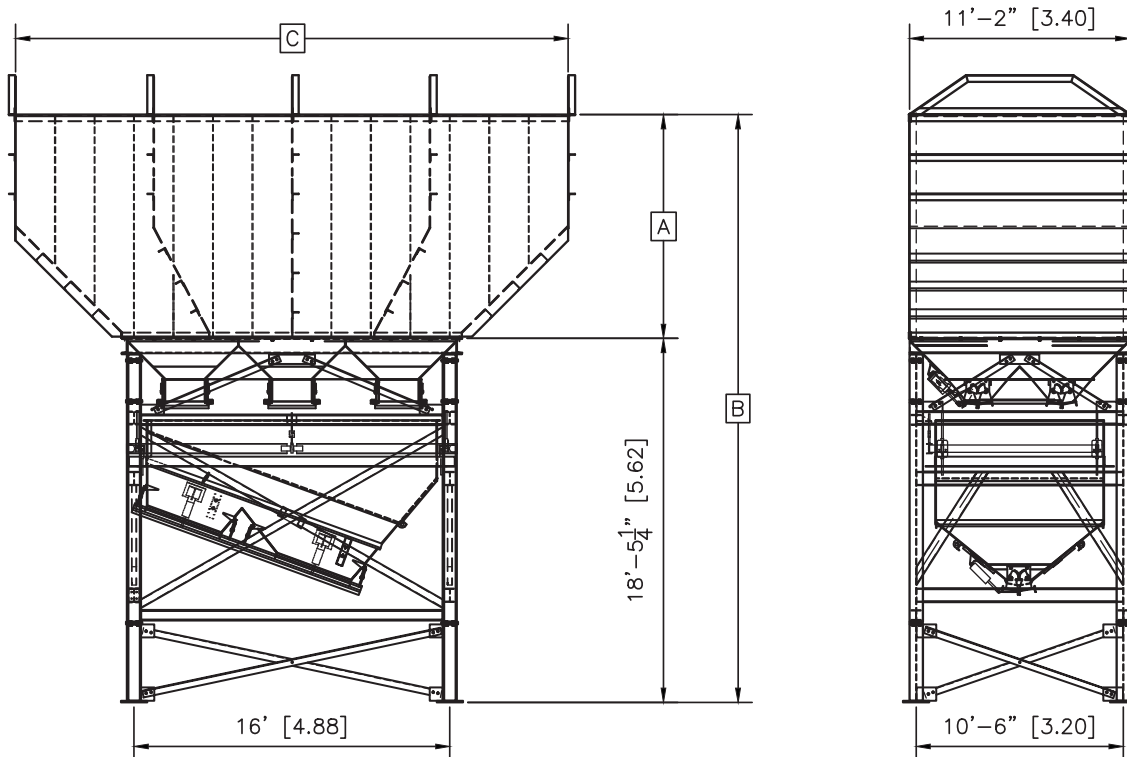
460 volts 3 phase with maximum of a 200 AMP disconnect

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**





70 TON - 200 TON

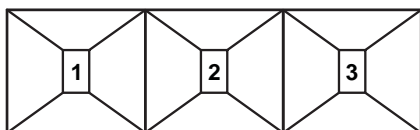
AGGREGATE BIN DIMENSIONS CHART

DESCRIPTION	UNITS	A	B	C	CAPACITIES	
					CU YARDS	CU METERS
70 TON AGG. BIN	STD.	3'-1 1/2"	21'-6 3/4"	22'-8 3/4"	51.85	
	METRIC	.95 M	6.57 M	6.93 M	39.6	
100 TON AGG. BIN	STD.	5'-1 1/2"	23'-6 3/4"	26'-8 3/4"	74.07	
	METRIC	1.56 M	7.18 M	8.15 M	56.0	
120 TON AGG. BIN	STD.	6'-1 1/2"	24'-6 3/4"	28'-8 3/4"	88.8	
	METRIC	1.85 M	7.49 M	8.76 M	67.8	
150 TON AGG. BIN	STD.	8'-2"	26'-7 1/4"	28'-0"	111.11	
	METRIC	2.49 M	8.11 M	8.53 M	84.9	
200 TON AGG. BIN	STD.	11'-4"	29'-9 1/4"	28'-0"	148.1	
	METRIC	3.45 M	9.07 M	8.53 M	113.2	

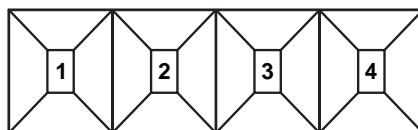
NOTE: TO CONTINUALLY UPDATE AND IMPROVE OUR PRODUCT WE RESERVE THE RIGHT TO AMMEND OUR STANDARD SPECIFICATIONS WITHOUT NOTICE.

BIN CONFIGURATIONS

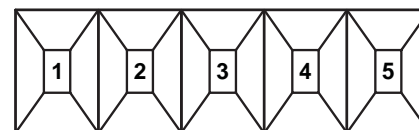
NOTE: CONSULT FACTORY FOR OPTIONAL CONFIGURATIONS.



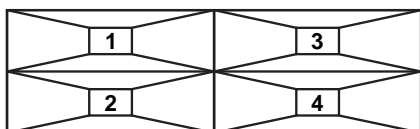
3 IN-LINE



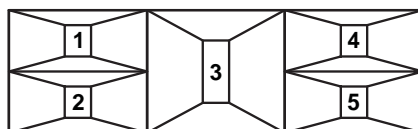
4 IN-LINE



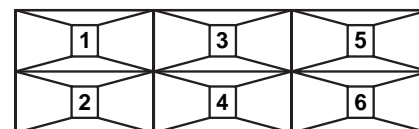
5 IN-LINE



4 WINDOW PANE



5 WINDOW PANE



6 WINDOW PANE

Overhead Aggregate

Bin Section: 70T - 200T

- Two clam gates on each compartment (when possible). Each gear type gate has six (6) 3/4" teeth per gear. Each gate has permanently lubricated bronze bushings on each gear.
- Each gate has a 5" diameter air cylinder with electric solenoid.
- Sloping sides of gate section fabricated of 1/4" plate with remainder 3/16" vertical sides.
- Heap plates.

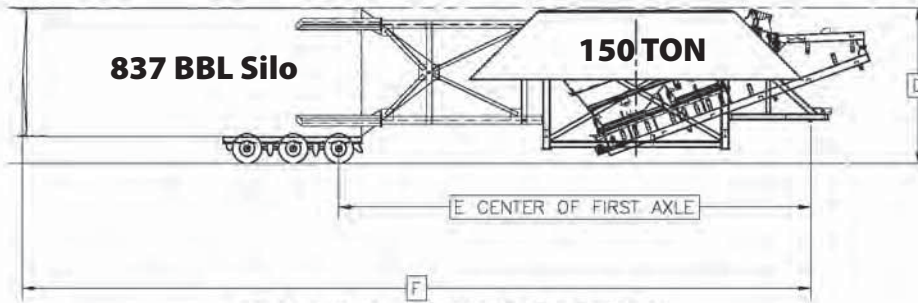


Aggregate Batcher

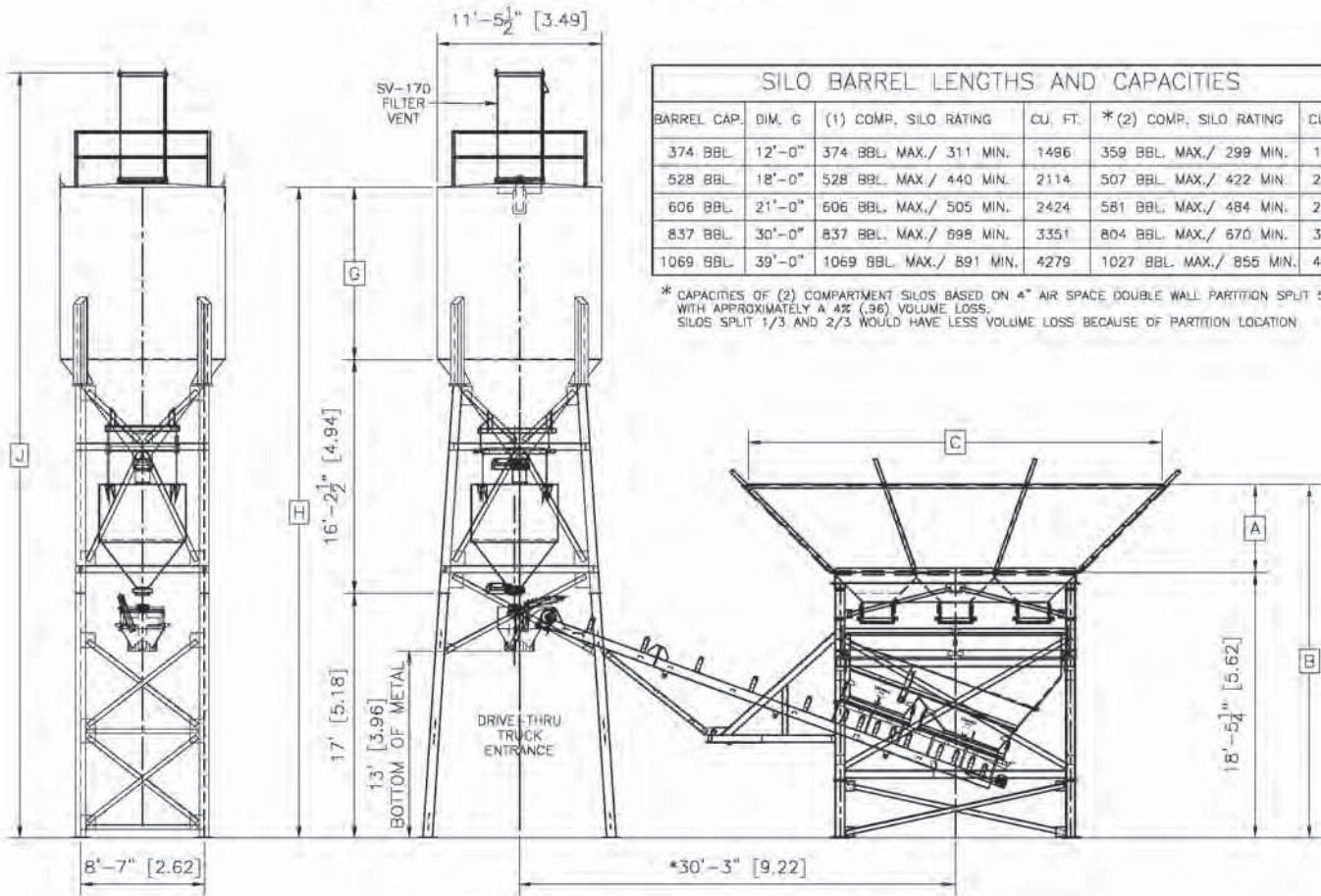
- 12 Yard capacity with 40,000 lb scale lever system. One "s" type load cell.
- 580 Cu. Ft. capacity at water level.
- Sloping sides fabricated of 1/4" plate, 3/16" remainder.
- Two discharge openings in batcher with one (1) extra long double acting clamshell gate, under both openings. Gear type gate with six (6) 3/4" teeth per gear. Gate has permanently lubricated bronze bushing. Gate will be actuated by two 5" air cylinders, with flow 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.)



Portable Model



STALLION - TOWING POSITION



BARREL CAP.	DIM. G	(1) COMP. SILO RATING	CU. FT.	*(2) COMP. SILO RATING	CU. FT.
374 BBL	12'-0"	374 BBL. MAX./ 311 MIN.	1486	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% (.36) VOLUME LOSS. SILOS SPLIT 1/3 AND 2/3 WOULD HAVE LESS VOLUME LOSS BECAUSE OF PARTITION LOCATION.

70 TON - 200 TON

DESCRIPTION	UNITS	A	B	C	D	E	F	G	H	J	CAPACITIES CU. YARDS CU. METERS
70 TON AGG. BIN	STD.	3'-1 1/2"	21'-6 3/4"	22'-8 3/4"	14'-0"	---	---	---	---	---	51.85
	METRIC	.95 M	6.57 M	6.93 M	4.27 M	---	---	---	---	---	39.6
100 TON AGG. BIN	STD.	5'-1 1/2"	23'-6 3/4"	26'-8 3/4"	14'-0"	---	---	---	---	---	74.07
	METRIC	1.56 M	7.18 M	8.15 M	4.27 M	---	---	---	---	---	56.0
120 TON AGG. BIN	STD.	6'-1 1/2"	24'-6 3/4"	28'-8 3/4"	14'-0"	---	---	---	---	---	88.8
	METRIC	1.85 M	7.49 M	8.75 M	4.27 M	---	---	---	---	---	67.8
150 TON AGG. BIN	STD.	8'-2"	26'-7 1/4"	28'-0"	14'-0"	---	---	---	---	---	111.1
	METRIC	2.49 M	8.11 M	8.53 M	4.27 M	---	---	---	---	---	84.9
200 TON AGG. BIN	STD.	11'-4"	29'-9 1/4"	28'-0"	14'-0"	---	---	---	---	---	148.1
	METRIC	3.45 M	9.07 M	8.53 M	4.27 M	---	---	---	---	---	113.2
374 BARREL CEM. SILO	STD.	---	---	---	---	52'-5 3/8"	73'-11 3/8"	12'-0"	45'-2 1/2"	53'-1 3/4"	55.4
	METRIC	---	---	---	---	15.99 M	22.54 M	3.66 M	13.78 M	16.2 M	42.3
528 BARREL CEM. SILO	STD.	---	---	---	---	52'-5 3/8"	76'-11 3/8"	18'-0"	51'-2 1/2"	59'-1 3/4"	78.2
	METRIC	---	---	---	---	15.99 M	23.45 M	5.49 M	15.21 M	18.03 M	59.7
606 BARREL CEM. SILO	STD.	---	---	---	---	SEE NOTE A	SEE NOTE A	21'-0"	54'-2 1/2"	62'-1 3/4"	89.7
	METRIC	---	---	---	---	---	---	6.40 M	16.52 M	18.94 M	68.5
837 BARREL CEM. SILO	STD.	---	---	---	---	SEE NOTE A	SEE NOTE A	30'-0"	63'-2 1/2"	71'-1 3/4"	124.0
	METRIC	---	---	---	---	---	---	9.14 M	19.27 M	21.69 M	94.6
1069 BARREL CEM. SILO	STD.	---	---	---	---	SEE NOTE A	SEE NOTE A	39'-0"	72'-2 1/2"	80'-1 3/4"	158.3
	METRIC	---	---	---	---	---	---	11.89 M	22.01 M	24.43 M	121.0

NOTE A: MAY REQUIRE SPECIAL TWO-PIECE DESIGN - PLEASE CONSULT FACTORY.

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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
- 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

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