



Stephens

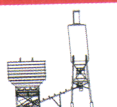


Thoroughbred

www.stephensmfg.com



Stephens



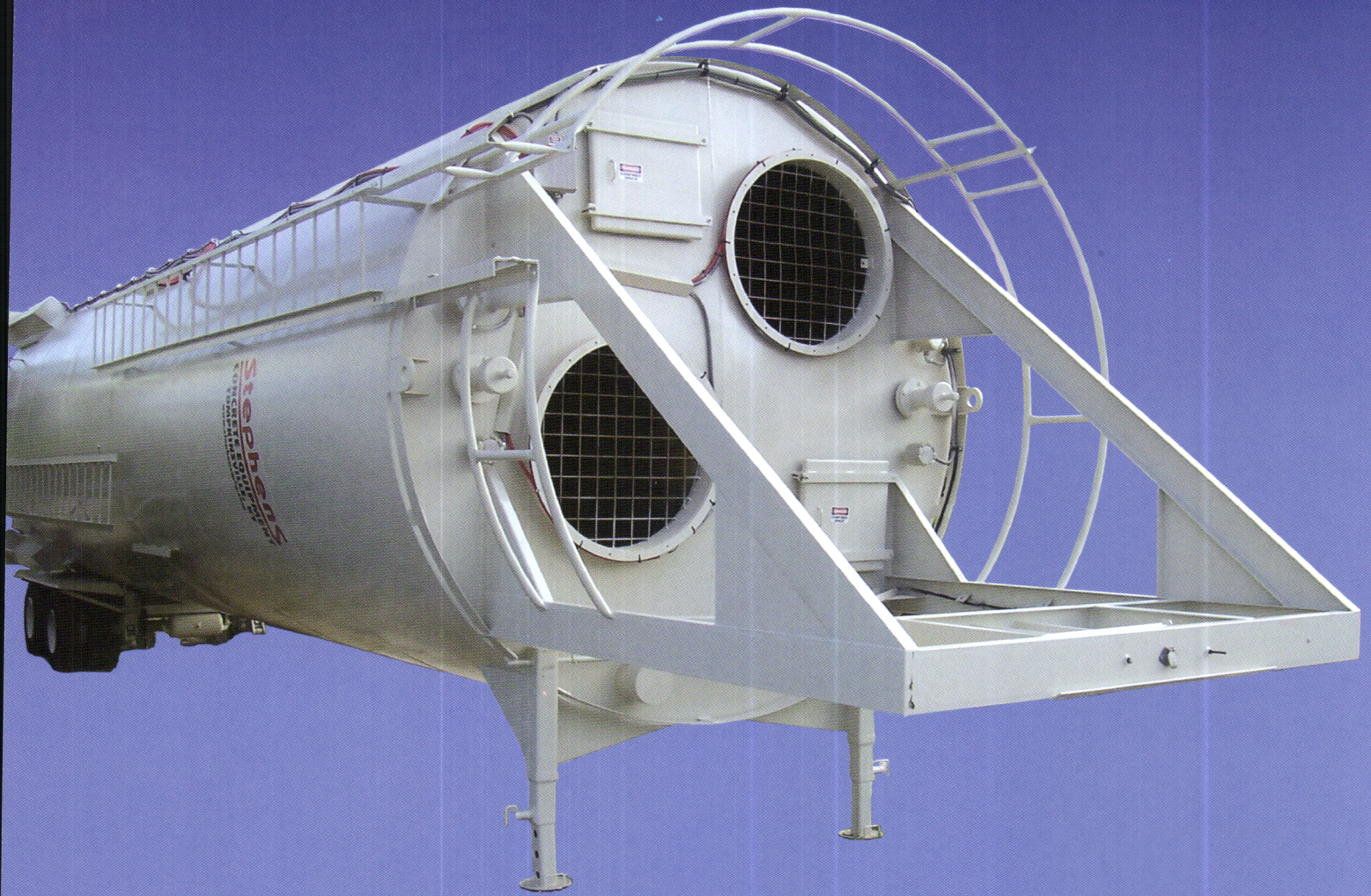
CONCRETE PLANTS
TOMPKINSVILLE, KY

(800) 626 0200

Cement Silo:

Standard Silo 374 BBL.

Optional: Silos up to 1,069 BBL single and dual Compartments.
837 - 1,067 have 1/4" 1st Band.



(Standard)

- (1) 1,496 Cubic feet – cylindrical design – 11'5"-1/2" diameter constructed of 3/16" steel with 1/4" steel top.
- (2) Manual emergency slide gate on cone of silo.
- (3) Safety pressure relief valve with cover mounted on top of silo.
- (4) 4" diameter fill line inside silo with cover mounted on top of silo.
- (5) 8 aeration pads in cone with electric push button control.
- (6) Moisture – filter – regulator unit with pressure gauge.
- (7) Outside ladder and safety CAGE, with toe board and pipe handrails around top of silo.
- (8) Inspection hatch on top of silo.
- (9) 10" butterfly valve on silo.
- (10) 3-1/4" air cylinders with electric solenoids mounted on electrical panel.
- (11) SV-170 filter vent (170 Sq. Ft. cloth) and timer switch controls with wiring in liquid tight flexible metallic conduit from filter vent on top of silo to junction box on plant power panel. Internal electric shaker cleaning devise, with 1/3 HP single-phase motor. **Optional:** Vents available.
- (12) Cement low-level indicator, mounted on top of silo with lighted signal mounted in control box.
- (13) Hinged silo or cement batcher for easy transporting. (Silos over 528 BBL or 2,112 Cu. Ft. will be separate load).
- (14) Silo support structure constructed of steel "structural" beams 374 –606 = W8x31#, 837 – 1,069 = W8 x 48#.

THOROUGHbred PORTABLE CONCRETE PLANT.

The Stephens Thoroughbred comes with bolt on extension legs with 13' clearance to metal.

Stephens Mfg. is a member of the CPMB (Concrete Plant Manufacturers Bureau) Each plant will have a CPMB rating plate to guarantee that it meets the specifications for that size plant.

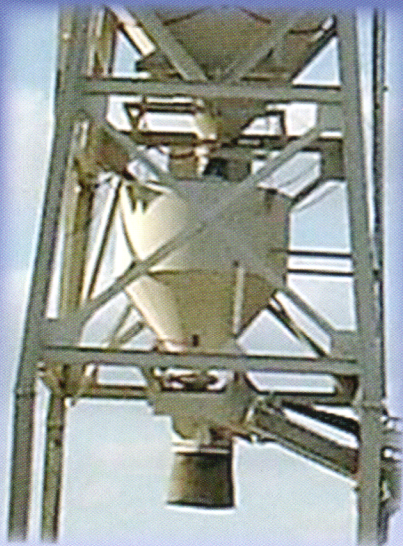


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Cement Batcher:

- (1) 12YD cement batcher 140-Cu. Ft. with 10,000 LB lever system, one "s" type load cell (100' cable) with 0-10 VDC digital readout, with inching gate on batcher inspection hatch on top of batcher.
- (2) 10" butterfly valve.
- (3) 3-1/4" air cylinder with electric solenoid mounted on power panel. Flo-restrictors mounted in solenoid.
- (4) Two aeration pads in cone of cement batcher with electric solenoid controls.
- (5) Turbine type air vibrator with electric solenoid.
- (6) Hanger lugs for hanging test weights and safety chains to secure batcher.

Optional: Limit Switches available.



Standard 70 TON - Three Comp

1400 cubic feet 70 ton - 51 cub

- (1) Bolt on extension legs between
- (2) Constructed of 1/4" steel on slo
- (3) 10 yards of material may be d
- (4) Hinged fold down sides for ea
- (5) Two clam gates on each comp
- (6) 5" diameter air cylinder with
- (7) Heap plates.
- (8) All air devices plumbed with
- (9) Aggregate support structure c
- (10) 1/4" abrasive resistant steel (4

Optional: A/R Liners av



Aggregate Bin

Departments. (Optional: Bins up to 200 Ton- Six Compartments).

Yards with heap – 3 compartment overhead storage bins.

on overhead bins and aggregate batcher.

sloping sides of gate section, 3/16" remainder.

discharged from any two (2) compartments. (On 4-compartment bin consult factory).

easy transportation. (Note: It may be to customer's advantage to have bins welded up to save crane time and labor in the field.)

compartment. Gear type gates with six (6) 3/4" teeth on each gear. Each gate has permanently lubricated bronze bushings.

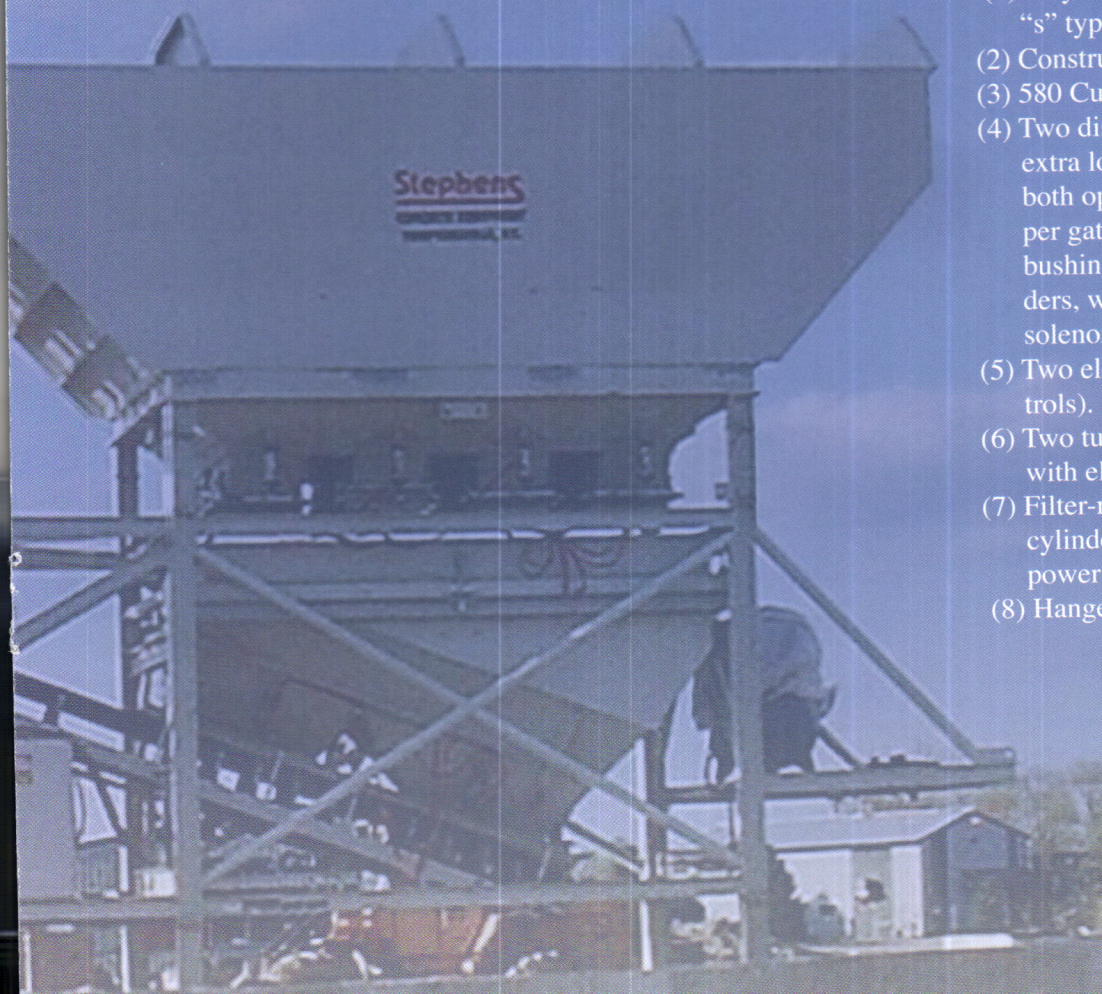
electric solenoid.

rubber air hoses.

constructed of steel "structural" beams W8 x 31#. (Max. of 200 tons of storage.)

100 brinnell) welded immediately above each gate (approx 12" tall.)

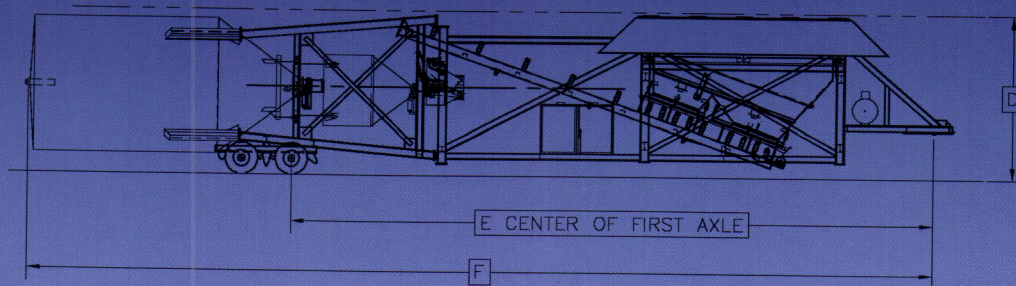
available



Aggregate Batcher

- (1) 12 yard with 40,000 LBS lever system with one "s" type load cell and 0-10 VDC digital readout.
- (2) Constructed of 1/4" steel on sloping sides.
- (3) 580 Cu. Ft. capacity at water level.
- (4) Two discharge openings in batcher with one (1) extra long double acting clamshell gates, under both openings. Gear type gate with six (6) 3/4" teeth per gate. Gate has permanently lubricated bronze bushing. Gate will be actuated by two. 4" air cylinders, with flow-restrictors mounted in two (2) solenoids.
- (5) Two electric solenoids. (Double for inching controls).
- (6) Two turbine type air vibrators with electric solenoid.
- (7) Filter-regulator lubricator unit for solenoids and air cylinders. Unit is mounted by solenoid bank on power panel.
- (8) Hanger lugs for hanging test weights.





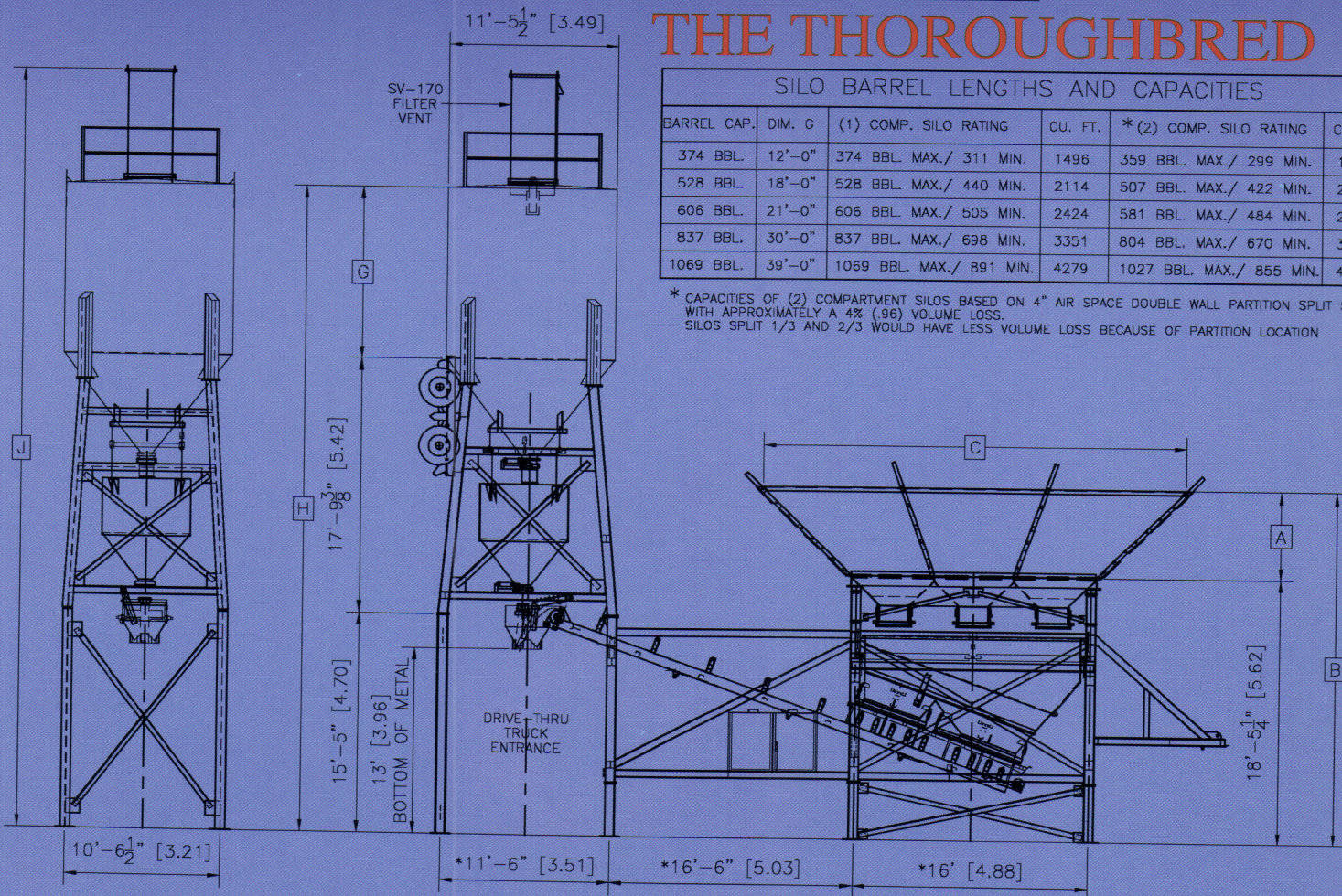
THOROUGHbred - TOWING POSITION

THE THOROUGHbred

SILO BARREL LENGTHS AND CAPACITIES

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.	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

THOROUGHbred PORTABLE CONCRETE PLANT DIMENSIONS CHART

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	8.76 M	4.27 M	---	---	---	---	---	67.8
150 TON AGG. BIN	STD.	8'-2"	26'-7 1/4"	28'-0"	14'-0"	---	---	---	---	---	111.11
	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 3/8"	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 3/8"	59'-1 3/4"	78.2
	METRIC	---	---	---	---	15.99 M	23.45 M	5.49 M	15.61 M	18.03 M	59.7
606 BARREL CEM. SILO	STD.	---	---	---	---	SEE NOTE A	SEE NOTE A	21'-0"	54'-2 3/8"	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 3/8"	71'-1 3/4"	124.0
	METRIC	---	---	---	---	---	---	9.14 M	19.26 M	21.69 M	94.8
1069 BARREL CEM. SILO	STD.	---	---	---	---	SEE NOTE A	SEE NOTE A	39'-0"	72'-2 3/8"	80'-1 3/4"	158.3
	METRIC	---	---	---	---	---	---	11.89 M	22.01 M	24.43 M	121.0

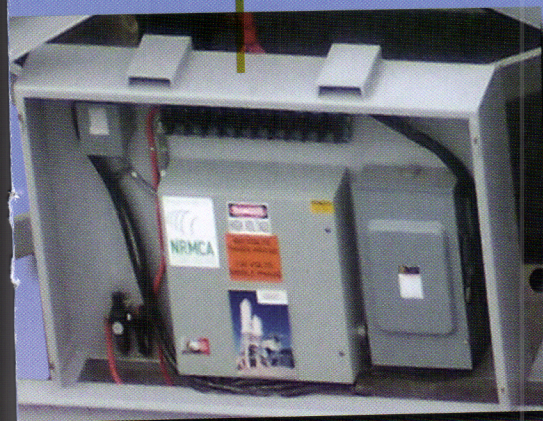
NOTE A: MAY REQUIRE SPECIAL TWO PIECE DESIGN - PLEASE CONSULT FACTORY.

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

Transfer Conveyor

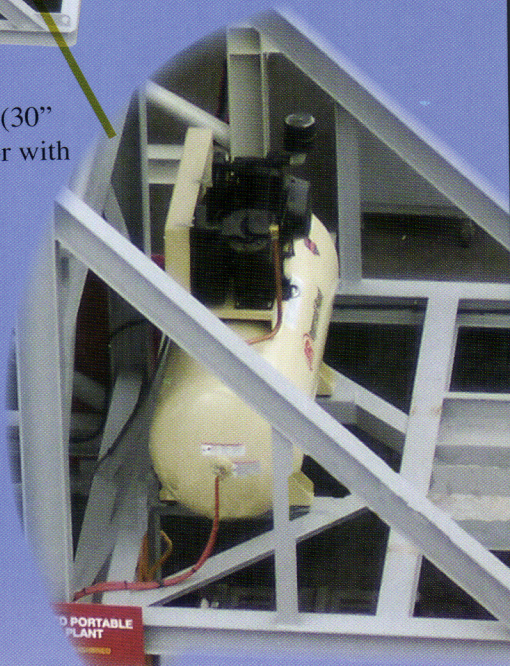


- (1) 30" x 33'6" channel frame transfer conveyor (30" conveyor belting with 3/16" x 1/16" conveyor with replaceable poly- eurothane blade.
- (2) 15-HP 3-phase TEFC motor 230/460 volts.
- (3) Shaft mounted gear reducer – 346 F.P.M. / 632 T.P.H., with safety guard.
- (4) Back stop mounted in reducer to prevent belt roll back.
- (5) 12" diameter rubber lagged head pulley with 2-7/16" bearing.
- (6) Truck collection hopper with 24" diameter opening and rubber boot. Water inlet pipe with six (6) admixture inlets. Constructed of 1/4" steel with 1/4" brinnell A/R liner. Two sides have replaceable "bolt in" liners on (400 brinnell)
- (7) 35- degree troughing idlers 4" diameter rolls with sealed bearing, placed on 4' center with extra idlers at charging point under gate. Steel shield over return idlers.
- (8) Self-cleaning tail pulley with 12" screw type takeups and safety guard around pulley.
- (9) Skirt board around loading point on belt. Lined with 1/2" rubber skirting material.
- (10) Stephens conveyors are rated by the CPMB (Concrete Plant Manufacturers Bureau) for accurate discharge rates. **Optional:** 36 Transfer Conveyor available.



Electrical Panel

200 AMP Power Panel
Optional: 400 and 600 AMP



Air Compressor

Standard 10 HP 120 gallon
 15 HP 240 gallon . optional

STEPHENS MFG.

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