

SERIES 1400

Portable Surge Bin



Hopper

- Capacity - 20 cu. yd. [15.3 cu. m]
- Top Opening - 15' 10" [4.8 m] x 7' 8" [2.3 m]
- Manual Adjust Radial Discharge Gate

Belt Feeders

- Channel Frame
- Drive – electric motor gear reducer drive
- Pulleys – grooved rubber lagged head pulley; steel drum tail pulley
- Idlers- CEMA B5, steel roll
- Belt – 2 ply, 220 PIW with 3/16" [4.8 mm] top x 1/16" [1.6 mm] bottom covers; vulcanized splice
- Take up – 6" [153 mm] screw

Conveyor

- Lattice Frame
- Drive – Head End; 3/60/460 TEFC electric motor; Class I Dodge shaft mount reducer with backstop; v-belt drive motor mounts and guards; belt speed is 350 fpm [1.8 m/s]
- Drive – Head End; electric motor; Dodge shaft mount reducer with backstop; v-belt drive motor mounts and guards; belt speed is 350 fpm [1.8 m/s]
- Pulleys – grooved rubber lagged head pulley with Dodge bearings; self-cleaning steel wing tail pulley with Dodge bearings
- Idlers - CEMA B5, steel roll
- Belt – 2 ply, 220 PIW with 1/8" [3.2 mm] top x 1/16" [1.6 mm] bottom covers; mechanical fasteners
- Take up – 12" [305 mm] screw

Undercarriage

- Adjustable height pin lock undercarriage
- Single or tandem axle with dual 11:00 x 22.5 tires
- King pin style gooseneck
- Manual landing jacks
- Air brakes
- Travel lights – brake and directional
- Mud flaps

Options

- Belt Cleaners - Martin with tensioner
- Undercarriage Lift Cylinder
- 7.5 HP [5.6kW] electric/hydraulic power pack
- CEMA C Idlers for Conveyor
- Impact Idlers for feeder
- Impact Idlers for conveyor
- Rubber Disc Return Idlers
- Pintle Hitch
- Grade 2, 3 ply 330 PIW, 3/16" [4.8 mm] x 1/16" [1.6 mm] Belt
- Vulcanized Belt Splice - on conveyor
- Sloped Grizzly – Manual or Hydraulic Dump
- Remote Control for Hydraulic Grizzly Dump
- Hydraulic Top Fold for conveyor
- Discharge Hood for conveyor
- Control Panel – includes across the line starter for conveyor, variable frequency drive for feeder and starter for grizzly power pack (if applicable); also includes motor cables wired to the panel

Physical and Operating Characteristics

	1430-60-20		1436-60-20		1430-70-20		1436-70-20		1430-80-20		1436-80-20	
	Std.	Metric	Std.	Metric	Std.	Metric	Std.	Metric	Std.	Metric	Std.	Metric
Conveyor Length (A)	60’	18.3 m	60’	18.3 m	70’	21.3 m	70’	21.3 m	80’	24.4 m	80’	24.4 m
Feed Height (B)	12’ 1”	3.7 m	12’ 1”	3.7 m	12’ 1”	3.7 m	12’ 1”	3.7 m	12’ 2”	3.7 m	12’ 2”	3.7 m
Maximum Discharge Height (Cmax)	19’ 10”	6.0 m	19’ 10”	6.0 m	23’ 8”	7.2 m	23’ 8”	7.2 m	26’ 10”	8.2 m	26’ 10”	8.2 m
Minimum Discharge Height (Cmin)	17’ 2”	5.2 m	17’ 2”	5.2 m	20’ 10”	6.4 m	20’ 10”	6.4 m	23’ 7”	7.2 m	23’ 7”	7.2 m
Hopper Length (D)	15’ 10”	4.8 m	15’ 10”	4.8 m	15’ 10”	4.8 m	15’ 10”	4.8 m	15’ 10”	4.8 m	15’ 10”	4.8 m
Hopper Width (E)	7’ 8”	2.3m	7’ 8”	2.3m	7’ 8”	2.3m	7’ 8”	2.3m	7’ 8”	2.3m	7’ 8”	2.3m
Travel Length - King Pin to Center of Axle (F)	48’ 2”	14.7 m	48’ 2”	14.7 m	48’ 1”	14.7 m	48’ 1”	14.7 m	53’ 3”	16.2 m	53’ 3’	16.2 m
Travel Length - King Pin to Rear (G)	60’ 11”	18.6 m	61’ 9”	18.8 m	61’ 9”	18.8 m	61’ 9”	18.8 m	72’ 1”	22.0 m	73’ 4”	22.35 m
Travel Height (H)	13’ 6”	4.1 m	13’ 6”	4.1 m	13’ 6”	4.1 m	13’ 6”	4.1 m	13’ 11”	4.2 m	13’ 11”	4.2 m
Travel Width (I)	8’ 6”	2.6 m	8’ 6”	2.6 m	8’ 6”	2.6 m	8’ 6”	2.6 m	8’ 6”	2.6 m	8’ 6”	2.6 m
Capacity	500 TPH	455 MTPH	750 TPH	681 MTPH	500 TPH	455 MTPH	750 TPH	681 MTPH	500 TPH	455 MTPH	750 TPH	681 MTPH
Axle	single		single		tandem		tandem		tandem		tandem	
Conveyor												
Width	30”	750 mm	36”	900 mm	30”	750 mm	36”	900 mm	30”	750 mm	36”	900mm
Drive	15 HP	11 kW	20 HP	15 kW	20 HP	15 kW	25 HP	18.5 kW	20 HP	15 kW	30 HP	22 kW
Reducer	TA3203		TA3203		TA3203		TA4207		TA3203		TA4207	
Belt Feeder												
Width	36”	900mm	42”	1,050 mm	36”	900 mm	42”	1,050 mm	36”	900 mm	42”	1,050 mm
Drive	15 HP	11 kW	20 HP	15 kW	15 HP	11 kW	20 HP	15 kW	15 HP	11 kW	25 HP	18.5 kW
Travel Weight												
Kingpin	20,000lb	9,070kg	20,000lb	9,070kg	21,400lb	9,700kg	21,400lb	9,700kg	17,600lb	7,980kg	17,600lb	7,980kg
Axle	20,000lb	9,070kg	20,000lb	9,070kg	29,000lb	13,200kg	9,700kg	13,200kg	27,300lb	12,300kg	27,300lb	12,300kg