

# Radial Stacker

## Series 31 Side Fold



### Frame

- Heavy duty lattice type with manual side fold
  - 80' (24.4m) – head end fold only
  - 100' (30.5m) – available head end fold only, or head and tail end fold

### Idlers

- CEMA B – 5" (127mm) diameter
  - 35 degree troughing idlers on 4' [1.2m] spacing
  - 20 degree idlers at feed point close spacing
  - Flat steel return idlers on 10' [3m] spacing

### Undercarriage

- Manual telescoping pin lock
- Axle – single axle with dual 11:00 – 22.5 tires on swivel wheel boxes

### Receiving Trough

- 5' 6" [1.7m] long with adjustable rubber flashing

### Belt Drive

- Head end drive
- 3/60/230-460 TEFC electric motor
- Class I Dodge shaft mount reducer with backstop
- V-belt, motor mounts and guards
- 3/8" [9.5mm] grooved, rubber lagged head pulley
- Steel wing tail pulley
- Screw take-up
- Belt Speed – 350 FPM (1.7mps)

### Belt

- 2 ply 220 PIW, 1/8" x 1/16" [3.2mm x 1.6mm] covers with mechanical fasteners

### Options

- Belt Cleaner
- Radial Hopper
- AR Liner
- Anchor Pivot
- Undercarriage Lift Cylinder
- 7.5 HP (5.6kW) electric / hydraulic power pack
- Power Travel – 2 HP (1.5kW) electric (brake motor)
- Pintle Hitch
- CEMA C Idlers
- Impact Idlers (3)
- Rubber disc return idlers
- 3 ply, 330 PIW belting
- Hydraulic Axle Raise
- Landing Gear
- Vulcanized belt splice
- King Pin\*
- Travel Lights\*
- Air Brakes\*

\*Recommended for Highway Portability

## Conveyor Specifications

Belt Width		Conveyor Length		Frame Depth		Capacity*		Drive		Reducer	Head Pulley		Tail Pulley	
in	mm	ft	m	in	mm	TPH	MTPH	HP	kW		in	mm	in	mm
30	610	80	24.4	30	762	500	454	20	14.9	TA3203	16	406	14	356
30	762	100	30.5	36	914	500	454	25	18.6	TA4207	18	457	16	406

\*Capacity based on 100 PCF [1.3 T/M<sup>3</sup>] Material

## Physical and Operating Characteristics

Conveyor Length		Travel Length (Kingpin to Tail)		Travel Height		Travel Width		Feed Height		Maximum Discharge Height		Minimum Discharge Height		Kingpin Weight		Axle Weight	
ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	lb	kg	lb	kg
80	24.4	57'-9"	17.6	11' 1"	3.4	11' 11"	3.6	5' 6"	1.7	28' 5"	8.7	13' 5"	4.1	3,200	1,451	12,500	5,670
100	30.5	58	17.7	11' 11"	3.6	11' 11"	3.6	5' 6"	1.7	35' 2"	10.7	13' 8"	4.2	4,000	1,814	16,600	7,530
100	30.5	74'-9"	22.8	11' 11"	3.6	11' 11"	3.6	5' 6"	1.7	35' 2"	10.7	13' 8"	4.2	3,800	1,723	16,600	7,530

## Stockpile Capacities

Pile Type - 80'	Short Tons	Metric Tons
Conical Pile	1,700	9,140
90° Pile	7,200	6,532
180° Pile	12,800	11,312
270° Pile	18,400	16,692

Pile Type - 100'	Short Tons	Metric Tons
Conical Pile	3,200	2,903
90° Pile	13,700	12,428
180° Pile	24,250	21,999
270° Pile	34,800	31,570