

Superior Guardian 7x20 Tandem Screening Plant, Unit #963

#1387515

Superior Guardian 7203 Horizontal Vibrating Screens -Primary screen must removed before road travel

- Supply and Installation for (2) Superior 7'x20' 3 deck screens to be provided complete with the following:
 - Discharge lips, pivot motor base, V-belts, sheaves and bushings for screens and motors, screen drive guards, wire cloth mounting hardware, screen support springs, feed box, feed area bolt on extension
- Price includes (2) 50 HP 1200 RPM TEFC screen drive motors (WEG)
- Discharge end of the screens are adjacent to the approximate center of the carrier
- Price includes under-screen gathering hoppers with 1/4" AR400 and full length adjustable rubber flashing
- Extended top deck discharge lips to feed onto cross conveyor
- One right hand drive and one left hand drive
- Straps included on Middle and Bottom decks
- RB Scott Standard Top Deck
- Vertical Dampening System

Carrier

- Wide flange main frame beams
- Spring type suspension with (4) axles and (16) 11-22.5 tires,
- (8) welded blocking support legs
- (2) swing-down king pin support legs with screw jack leveling
- Fifth wheel hitch
- Air brakes with emergency and service glad-hands
- Mud flaps
- Travel lights with turn and directional control signals
- common grease point to allow for greasing from multiple points outside of plant

Primary Screen Fines Conveyor

- (2) 30" conveyor to discharge screen fines to the rear of the plant (reversible to feed out of plant or onto secondary screen fines conveyor)
- 15 HP 1800 RPM TEFC drive motors, Dodge reducers, V-belt drives, drive guards (WEG)
- Head and tail pulleys - 12" diameter, 3/8" diamond lagged, crown face drum
- Belt - 3 ply 3/16x1/16 330 PIW
- Belt splice - Steel mechanical fasteners
- Primary belt scraper - Exterra® Belt Cleaner, on both sides
- Trough idlers - Superior CEMA C, 5" diameter, 20 degree picking idler, sealed for life ball

- bearings, 18" on center under gathering hopper, 36" on center over balance of conveyor
- Return idlers - Superior CEMA C, 5" diameter flat rolls, sealed for life ball bearings, 10' on center-
- Manual screw type take-ups
- Flop gates to direct fines material to one conveyor or the other, handles on the outside of plant with hydraulic assist to adjust blend, simplified gate, width at screen panel

Secondary Screen Fines Conveyor

- (1) 60" conveyor to discharge screen fines to the rear of the plant
 - 25 HP 1800 RPM TEFC drive motors, Dodge reducers, V-belt drives, drive guards (WEG)
 - Head and tail pulleys - 12" diameter, 3/8" herringbone lagged, crown face drum, Chevron® wing pulley
 - Belt - 3 ply 3/16x1/16 330 PIW
 - Belt splice - Steel mechanical fasteners
 - Primary belt scraper - Exterra® Belt Cleaner
 - Trough idlers - Superior CEMA C, 5" diameter, 20 degree picking idler, sealed for life ball bearings, 18" on center under gathering hopper, 36" on center over balance of conveyor
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- Return idlers - Superior CEMA C, 5" diameter flat rolls, sealed for life ball bearings, 10' on center
 - Manual screw type take-ups

(5) Cross Conveyor (top, middle and bottom decks)

- (1)42"x12' long, rolling and reversing - receive material from the top, middle and bottom decks, respectively
- (4)24"x12' long, rolling and reversing - receive material from the top, middle and bottom decks, respectively
- Designed to slide 18"-20" to discharge material to the outside of either side of the plant
- 5 HP 1800 RPM TEFC drive motor, Dodge reducer, V-belt drive, drive guard
- Head pulley - 10" diameter, 3/8" diamond lagged, crown face drum
- Tail pulley - 10" diameter, crown face wing
- Belt - 3 ply 3/16x1/16 330 PIW
- Belt splice - Steel mechanical fasteners
- Exterra Scrapers
- Trough idlers - Superior CEMA C, 5" diameter, 20 degree picking idler, sealed for life ball bearings, 24" on center
- Return idler - Superior CEMA C 5" diameter, rubber disk roll, sealed for life ball bearings
- Manual screw type take-ups

Discharge Lips

Top Deck Discharge Lips - 30.75" Long

- Included with the horizontal vibrating screens
- Each top deck chute has a four-section blending gate which directs materials into the middle deck discharge chute
- Extend to direct top deck oversize materials onto respective cross conveyor
- 1/4" AR weld-in liner in wear areas

Middle Deck Discharge Chutes - 5" Long

- Discharges oversize materials from second deck onto the respective cross conveyor
- Each second deck chute has a four-section blending gate which directs materials into the bottom deck discharge chute
- 1/4" AR weld-in liner in wear areas

Bottom Deck Discharge Chutes - 5" Long

- Discharges oversize materials from second deck onto the cross conveyor
- Each third deck chute has a four-section blending gate which directs materials onto the fines conveyor
- 1/4" AR weld-in liner in wear areas

Walkway

- Tread Plate walkway on (3) sides of each screen
- Walkways include handrail, center rail, and toe board
- Walkway access on both sides of the chassis with steep angle stair access
- Hydraulic folding for transport on non-drive side of plant

Superior Hydraulic "Run-On" Jacks

- (8) hydraulic run-on jack legs with 18" stroke, HSS tubing design fully encloses and protects hydraulic cylinder
- Cylinders are fitted with a "Cylinder Lock" and no mechanical pinning is required
- Individual control valves for each leg
- Honda Power unit, 13 HP, enclosed cabinet

Overhead Safety tie off

- Safety tie off over plant for workers to tie off when working on screen
- Folds down for transport

Safety Guards

- All standard guarding is installed - customer will be responsible for meeting local requirements

Electrical

- NEMA enclosure with switchgear and on/off pushbutton switches to control on-plant motors
- Electrical on-plant wiring is installed
- Main feed power cord from external power source to control panel is not included in price
- Painted to match chassis
- Panel mounted under walkway on passenger side of plant, panel to stay on the plant for operation and mounted on rubber isolators

Paint

- (1) coat primer; (1) finish coat enamel
 - Superior Beige, safety yellow handrails and guards

