

## Superior Guardian 6x20 3-Deck, 36" Twin Screw Wash Plant, Unit#964

#1429525

### Carrier chassis

- Main frame constructed of wide flange structural steel beams
- Tridem axle with (12) 11x22.5 radial tires, spring suspension
  - complete air brake system
  - mudflaps on rear axle
- Travel lights with brake and directional signals
- Fifth wheel hitch
- Crank-down landing gear, 2 speed
- (6) fixed, structural steel cribbing legs
- Grease package - consisting of 1-2 locations to grease entire plant

### Superior Guardian™ 6203 Horizontal Vibrating Screen

- Supply and Installation for a 6x20 3 deck, all pertinent items and components including:
  - adjustable motor base, motor sheave, screen sheave, v-belts, drive guard
  - Screen and all pertinent items and components are supplied by Superior
- Price includes the following items:
  - 40 HP TEFC, 1200 RPM, 480 volt, 3 phase, 60 hz, screen drive motor
  - screen subframe
- Screen is installed to operate in the horizontal position
- Right hand drive

### Superior 36" x 28' Twin Fine Material Washer

- Supply and Installation for a T36x28' FMW, all pertinent items and components
- 1/4" ASTM A36 Steel
- Outboard pillow block bearings
- Over-flow flume with adjustable weir
- Material discharge chute
- Tail end feed hopper and tub baffle
- Variable Speed
- 200tph
- Urethane wear shoes
- Spiral type shaft, half pitch flighted for high capacity with adjustable mounts
- Weir water overflow downspout on each side of fine material washer
- Price includes the following items:
  - (2) 15 HP TEFC, 1800 RPM, 480 volt, 3 phase, 60 hz, motor(s)
  - V-belt drive with guard

- Dodge shaft mount gear box

#### Screen discharge chutes

- Chutes are fixed in position
- Constructed of 1/4" Mild Steel with 1/4" AR400 liner
- Top deck chute discharges over the kingpin end of the chassis
- Middle and bottom deck chutes discharge to sides of plant

#### Underscreen Flume

- 1/4" AR Construction
- spray bar at feed and discharge end
- Directs fines material from screen into FMW

#### Spray Bars

- (16) 1.5" Galvanized spray bars and elbows, brass nozzles
- Flexible rubber hosing from manifold to spray bars
- Manually adjustable spray bar for each spray bar, mounted below walkway
- Ball Valves installed at the end of each spray bar

#### Water Manifold

- 8" bolt flange at ground level for fresh water hookup
- Fresh water feeds in from end
- Distributes water to: spray bars, slurry hopper, FMW wash back, and fines hopper

#### Slurry Hopper

- Manually folds from transport to operating position
- Accepts feed from conveyor and feeds onto feedbox of screen, lined for wear protection
- Spray bars mounted inside hopper
- Double row of high flow spray nozzles to slurry material

#### Walkway

- 3/16" diamond tread plate along both sides and feed end of screen

- Includes toe board, and two-rail handrail, bolt on
- Walkway access on both sides of the chassis with steep angle stair access
- Drain holes

#### Voltage

- Required power is 480 v/ 3 ph / 60 hz

#### Guarding

- Price includes standard guarding
- Customer is responsible to have guarding inspected

#### Paint

- (1) coat primer; (1) finish coat enamel in Superior Color Scheme Chassis Graphite Grey/Screen Window Grey/Orange Guarding

#### Owner's manual

- (1) copy included for operation and maintenance

#### Hydraulic "lift-only" leveling jacks

- (4) 6" x 20" hydraulic cylinders
- (4) manual lever valves; (1) for each cylinder
- 9hp Honda gasoline over hydraulic pump unit

#### Slurry Hopper

- Hydraulically folds from transport to operating position

#### Roll-away option on discharge chutes

- Rollers mounted under chute support structure
- Designed to move discharge chutes away from the screen
- Allows for access to the front of screen for maintenance

## Blending gates

- (4) flop gates in each chute; each gate manually operated by a lever outside their respective chute
- Constructed of 1/4" Mild Steel with 1/4" AR liners
- Top deck chute discharges over the kingpin end of the chassis or onto middle deck cross conveyor, 25% Blending gates
- Middle deck chute discharges onto middle or bottom deck cross conveyor, 25% Blending gates
- Bottom deck chutes discharges onto bottom or "blends up" to middle deck cross conveyor, 25% blending gates
- AR liners on both sides of blending gates

## Electrical control panel

- NEMA 4 enclosure and NEMA SQUARE D or Allen Bradley electrical components
- Wired to on-plant motors
  - (1) 40 HP screen drive motor
  - (2) 15 HP FMW drive motors
  - (2) 7.5 HP reversing cross conveyors
  - Amp guage on outside of panel
  - Hour meter inside panel
  - Warning horn and light
  - Labelled start/stop pushbuttons and E-stop pushbutton mounted on door of electrical panel
  - Mounted on skid frame with lifting eyes (mounted on ditch side of plant)
  - Power cables from motors to place panel 30' from plant, cable storage
  - Includes 2 extra #2 starters

## Extra power cord

- Extra length power cords to locate control panel away from chassis during operation
- Price is per foot distance between control panel and chassis

## (2) 30" wide x 12' long reversing cross conveyors

- Structural steel channel main frame
- Mounted on rollers to manually move to discharge from either side of chassis
- Receive oversize material from respective middle and bottom decks
- Class II head end drive
- 5 HP motor, v-belt drive with drive guard

- Dodge shaft mount reducer
- Head pulley - 10" diameter drum, crown face, 3/8" diamond lagging
- Tail pulley - 10" diameter wing pulley
- Shafts - turned and polished
- Dodge bearings
- Manual screw take-ups
- Carry idlers - C5, 20 degrees trough, channel mount, spaced 26" OC
- Belting - 3 ply, 3/16" x 1/16" 330 PIW
- Belt splice - Vulcanized
- Belt cleaner - Exterra® primary belt cleaner

