



# Superior Guardian 6x20 3-Deck Twin 36" Portable Wash Plant Unit 1356

#2240619

Equipment is as follows:

## Plant Specifications

Construction: Main frame constructed of wide flange structural beams  
Discharge Chute: Manual rollaway chute constructed of 1/4" structural steel with 1/4" weld-in AR 400 liner  
Rubber Flashing: Not Included  
Blending Capability: 1/4 panel blending gates in discharge chute system  
Top Deck Discharge: Over the kingpin or blends down to middle deck cross conveyor  
Middle Deck Discharge: To middle deck cross conveyor or blend down to bottom deck cross conveyor  
Bottom Deck Discharge: To bottom deck cross conveyor or blend up to middle deck cross conveyor  
Walkway: Walkway around both sides and feed end of screen: extends out to the end of the discharge chute  
Observation Platform: Not included  
Walkway Access: Access to both sides of chassis with (2) folding steep angle stairs  
Access Gates: Chain safety latch at all walkway access points  
Slurry Hopper: Hydraulically folds from transport to operating position. Accepts feed from conveyor and feeds onto feedbox of screen Lined for wear protection. Spray bars mounted inside of hopper. Triple row of high flow spray nozzles to slurry hopper  
Wye Strainer: Not included  
Grease Package: Remote grease station, multiple grease points outside of chassis frame  
Tool Box: Not included  
Cord Holders: Round pipe with end disc style cord holders welded to chassis frame  
Safety Tieoff: Overhead safety tie off posts with cable between two posts  
Paint: Standard Superior paint - Graphite Gray (RAL 7024) chassis, Window Gray [RAL 7040]  
Screen box and fine material washer, Superior Orange handrail and guarding  
Guarding: For all drive and tail pulleys, guards may not meet all local codes; customer is responsible to have guarding inspected

## Chassis Specifications

Axle: Tridem axle with (12) 11Rx22.5 radial tires  
Suspension: Spring suspension  
Brakes: Complete air brake package  
Fifth Wheel: Included  
Lights: Brake and directional signals  
Mud Flaps: Installed behind transport wheels  
Cribbing Legs: (6) fixed structural steel cribbing legs  
Landing Gear: (4) hydraulic lift-only leveling legs with 9 HP Honda Power Unit



Tow Eye: Not Included  
Level Assist: Not Included  
Sign Plate: RB Scott sign plate installed

### **Spray System and Underflume**

Underflume Construction: 1/4" ART plate  
Underflume Spray Bars: Located at feed and discharge points  
Manifold: 8" bolt flange for fresh water hookup (customer responsible for fresh water plumbing to manifold)  
Manifold Distribution: Distributes water to screen spray bars, slurry hopper, FMW wash back and fines hopper. Extra line to be used with a hose to wash down equipment  
Butterfly Valves: Butterfly valves on screw drains

### **Cross Conveyor Specifications**

Cross Conveyors: (2) 30" x 12' long slide-in reversing cross conveyors  
Drive: Class I head end  
Gear Reducer: Dodge shaft mount  
Motor: 7.5 HP motor(s) TEFC  
Drive Pulley: 10" diameter, diamond lagged CEMA crown faced drum  
Tail Pulley: 10" diameter CEMA wing pulley  
Bearings: Dodge  
Idlers: CEMA C, 5" dia. Rolls, sealed for life ball bearings, 20°  
Belting: 3 ply 3/16 x 1/16 330 PIW  
Belt Splice: Factory installed Flexco mechanical fastener(s)  
Belt Scraper: (1) Exterra Primary scraper per cross conveyor

### **Screen Specifications**

Screen Size: Guardian 6x20 3-deck horizontal screen  
Screen Drive: Right hand  
Configuration: Operate in true horizontal position  
Screen Motor: 1200 RPM 40 HP, TEFC, NEMA Premium "Design C" included  
Folding Motor: Manually folding motor for plant to travel at 12'6" wide  
Shaft Housing: Mild steel protection clamped to shaft housing  
Springs: Standard coil springs  
Feedbox: 24" Feedbox with 1/4" AR liners

### **Top Deck**

Top Deck Type: Heavy x-brace single crown deck to accommodate 4' single crown wire cloth media sections  
Top Deck Screen Media: Supplied and installed by customer  
Top Deck Take Up: Standard take up rails  
Top Cross Member Protectors: Not included

### **Middle Deck**

Middle Deck Type: Heavy x-brace single crown deck to accommodate 4' single crown wire cloth media sections

Middle Deck Take Up: Supplied and installed by customer

Middle Deck Take Up: Standard take up rails

Middle Cross Member Protectors: Not included

## **Bottom Deck**

Bottom Deck Type: Heavy x-brace single crown deck to accommodate 4' single crown wire cloth media sections

Bottom Deck Screen Media: Supplied and installed by customer

Bottom Deck Take Up: Standard take up rails

Bottom Cross Member Protectors: Not included

## **Material Washer Specifications**

Material Washer: Superior Twin 36" x 25' Fine Material Washer

Screw Speed: 20 RPM

Capacity: Up to 200 STPH (subject to change based on final gradation)

Wear Shoes: Rubber

Gear Box: Dodge shaft mount

Dewatering Screen: N/A

Dewatering Screen Motor: N/A

Butterfly Valves: Butterfly valves on screw drains

## **Electrical Specifications**

Voltage: 460 v / 3 ph / 60 hz

Control Panel: Skid mounted panel, with lifting eyes. Travels on plant and removed for operation. Includes starters for all on-board motors and (2) additional #2 starters and NEMA rated components

Wiring: Factory supplied and installed wiring from panel to all on board motors. Customer responsible for wiring power into control panel, and additional starters



