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## **Portable Screen**

### **Screening Plant with Deister 7' x 20' Triple Deck Horizontal Screen**

#### **Carrier chassis**

Main frame constructed of wide flange structural steel beams  
Tandem axle with (8) 11x22.5 radial tires  
complete air brake system  
mudflaps on rear axle  
Travel lights with brake and directional signals  
Fifth wheel hitch  
(4) fixed, structural steel cribbing legs  
Common Grease points - 1-2 locations to grease entire plant

#### **Deister 7203 Horizontal Vibrating Screen**

**Installation only** for a Deister 7x20 3 deck, all pertinent items and components including:  
adjustable motor base, motor sheave, screen sheave, v-belts, drive guard  
50 HP TEFC, 1200 RPM, 460 volt, 3 phase, 60 hz, screen drive motor  
screen subframe  
Screen is installed to operate in the horizontal position  
Right hand drive

#### **Screen discharge chutes**

Roll away chute  
Constructed of 1/4" Mild Steel with 1/4" AR liners  
Top deck chute discharges over the kingpin end of the chassis, cross conveyor, 25% Blending gates  
Middle deck chute discharges onto middle deck chute angled to ditch side  
Bottom deck chutes discharges onto bottom deck cross conveyor or discharges onto fines conveyor,  
25% blending gates  
AR liners on both sides of blending gates

#### **Fines hopper**

3/8" AR Construction with conveyor belt lining, adjustable rubber flashing full length

#### **(1) 24" wide x 11' 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  
7.5 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 - 2 ply, 3/16" x 1/16" 220 PIW  
Belt splice - vulcanized  
Primary belt scraper - Exterra® Belt Cleaner

**60" x 29' fines conveyor (Horizontal)**

Structural steel channel main frame  
Capable of accepting a reject conveyor  
Class II head end drive  
15 HP motor, v-belt drive  
Dodge shaft mount reducer  
Head pulley - 12" diameter drum, crown face, 3/8" herringbone lagging  
Tail pulley - 12" diameter Chevron® wing pulley  
Shafts - turned and polished  
Dodge bearings  
Manual screw take-ups  
Carry idlers - C5, 20 degrees picking, channel mount, spaced approximately 27" OC  
Return idlers - C5, flat rolls, spaced 10' OC  
Belting - 2 ply, 3/16" x 1/16" 220 PIW  
Belt splice - vulcanized  
Primary belt scraper - Exterra® Belt Cleaner

**Walkway**

3/16" diamond tread plate along both sides and feed end of screen  
Hydraulic folding walkway on non-drive side  
Includes toe board, and two-rail handrail, bolt on  
Walkway access on both sides of the chassis with steep angle stair access  
Drain holes

**Hydraulic "lift-only" leveling jacks**

(4) 6" x 16" hydraulic cylinders  
(4) manual lever valves; (1) for each cylinder  
9HP Honda Motor gasoline over hydraulic, enclosed cabinet

**Overhead Safety tie off**

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

**Cribbing Storage**

Hinged storage compartment  
Holds drive guard, screen cloth, cribbing materials, etc.

**Electrical control panel**

Not included

**Electrical**

Required power is 480 v/ 3 ph / 60 hz  
Control panel and wiring are not included

**Guarding**

Price includes standard guarding  
Customer is responsible to have guarding inspected

**Paint**

(1) coat primer; (1) finish coat enamel available in the following colors:  
Superior Orange, Superior Beige, Superior White, Superior Sandstone

**Owner's manual**

(1) copy included for operation and maintenance

**Deister Model TFM3P-3720, triple deck, 7' x 20' Deister Triple-shafted Heavy Duty Horizontal Vibrating Screen, LESS steel wire screen cloth, but INCLUDING:**

**Screen Vibrating Frame**

- Trunnion type spring support mounts on each corner, baked epoxy coated support springs
- Snubbers (friction checks) - spring loaded
- 1/4" thick HSLA steel sideplates formed along the top and bottom, with 5/16" thick formed HSLA steel reinforcing plates bolted to sideplates between bearing housing and sideplates
- Access ports with cover plates in the sideplates
- Removable back plates, rubber flap and steel combination
- Screen media support panel configuration
  - All decks - Screen cloth support panels constructed of fabricated I-beams welded to formed angles bolted to the sideplates
- 4" long discharge lips protected by 1/4" thick AR steel replaceable wear plates
- Tension plates (skirtboards)
- Deister heavy duty tension screen cloth tensioning devices
- Feed box with 1/4" AR steel replaceable wear plate in the bottom

**Eccentric Mechanism**

- The triple-shafted "gear-type" vibrating mechanism is located between the middle and bottom decks and equipped with 120 mm. spherical roller vibrating screen bearings
- Steel-flanged vibrating mechanism tubes bolted to the sideplates

- Oil fill and drain plugs and the oil level gauges located on the outside surface of the vibrating mechanism end covers plate
- Deister “slinger mist” oil bath lubrication system, with labyrinth type dust and oil seals requiring approximately 3-1/2 gallons of oil in the vibrating mechanism end covers acting as the oil reservoir and requiring only oil changes every 500 hours
- Each vibrating mechanism tube is protected by a 3/8" thick steel-backed rubber shield tack welded to the tube
- Eccentric shafts with adjustable weights for stroke adjustment
- Bronze sleeve between bearing and shaft

#### **Drive System**

- Deister heavy duty rubber torsion pivoted motor base, less motor support
- Wideband V-belt, and motor sheave
- Belt guard, less mounting brackets

#### **Screen Parameters**

- Screen is horizontal
- Approximate operating speed: 790 RPM
- Approximate stroke setting: 11/16"

#### **Included Screen Options**

- Snubber guards
- Rubber wrapped spring guards
- 50 HP motor

**PRICE: \$243,935.00**

(AMS Item 16587). Terms are Net 10 Days after receipt of equipment, subject to prior credit approval. Sales tax is additional and charged at the appropriate rate. Freight is also additional and charged at our actual cost.

This equipment is rented without motor controls, power cable, motor, safety stop switches, and other components that may be required, unless otherwise specified.

*Photos below*



Item 16587



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