



924 Calle Negocio • Unit A  
San Clemente, CA 92673  
Phone: (949) 366-3070 • Fax: (949) 366-3069  
[www.aggregatemachineryspecialist.net](http://www.aggregatemachineryspecialist.net)  
6/13/22

---

## **Portable Deister 8'x20' Wash Plant**

Portable wash plant consisting of two components; an 8'x20' Deister horizontal triple deck wash screen mounted on a portable trailer, flume to either an Eagle Iron Works 54"x34' single screw washer, or an Eagle 44"x32' double screw rated at 350 TPH 100% screw speed.

### **3 DECK, 8' X 20' TRIPLE-SHAFTED HORIZONTAL SCREEN**

ONE - TYPE TFM3P-3820, triple deck, 8' x 20' Deister Triple-shafted 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 rectangular tubes welded to formed angles bolted to the sideplates for easy replacement
- 7" 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 "slingermist" 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
- "5V" section 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"
- Estimated weight (screen only): 24,300 lbs.

### **Included Options**

1. H-beam Base, 3,200 lbs.
2. Motor, 60 hp, 3/60/460 characteristics
3. Spray System - Complete spray system as follows:
  - Five (5) stationary 2" spray headers on the top deck, and four (4) stationary spray headers on the bottom deck
  - The holes in the sideplates on the bottom deck where the stationary headers pass thru are sealed with a urethane spray seal which mounts to the spray header and is pushed up against a ring which is bolted to the sideplate
  - Top and bottom deck sprays are assembled and mounted on the stationary steel structure furnished by Deister Machine Co.
  - Five (5) vibrating spray headers on the middle deck
    - The holes in the sideplates where the vibrating headers pass thru are sealed with split cover plates which are equipped with damping clamps for securing the spray bars
  - Each header equipped with eleven (11) threaded brass spray nozzles
  - Each header with a cap on one end and coupling or elbow on the other
  - 3" x 8" rectangular steel tube water manifold with a valve on one end and adaptor with 6" pipe coupling on the other mounted to the stationary steel structure provided by DMCo.
  - Fifteen (15) 2" brass gate valves
  - Assembled and mounted by Deister Machine Co., either attached to the sideplates or mounted on the H-beam base if the base is supplied by Deister
4. Spring Flaps
5. Snubber Guards

### **TRAILER**

*Drawing 420-0077, Rev A*

---

### **Portable 8203 Wash Screen with Pump**

- 18" WF 50# frame
- Hutch equalizing suspension
- 22,500# standard forge axles, 11:00Rx22.5 tires
- 4 Ground support stands, standard 5<sup>th</sup> wheel plate
- Air brakes, brake lights, marker lights, reflective tape, and mud flaps
- AR lined discharge chutes
- Under screen collection hopper to 12" pipe flange from flume discharge
- Walkways both sides 24" and 48" back platform with handrails, toe boards, and access ladder

### **Cross Conveyors: (1) 30"x12' and (1) 24"x12' Cross Conveyors 2<sup>nd</sup>/3<sup>rd</sup> Decks**

- 7.5 hp motorized pulley 12" vulcanized lagged head pulley
- CEMA-B 4" 20-degree channel inset idlers
- CEMA-B 4" return idlers

- Winged tail pulley 10" self-cleaning 1 -15/16
- Dodge narrow slot bearings and take-up design
- Primary belt cleaner
- Belting 2 ply 220PIW 3/16 x 1/16 with vulcanized splice
- Fully skirted with 1/2" skirt board rubber
- Cartridge style with 3/8" sheet metal construction

**Slurry Feed Box with 3 Water Outlets**

- Manual fold support stand
- Separate water manifold with individual gate valves for each outlet

**Blending Gates**

- 1<sup>st</sup> top deck down / 2<sup>nd</sup> middle deck down

**Rollaway Discharge Chutes**

**Slurry Box Hydraulic folding**

**Hydraulic run-on Legs, Qty 4 with 12volt HPU**

**Honda gas powered HPU in lieu of 12 Volt**

**Primer and Paint**