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# DEWATERING SCREENS

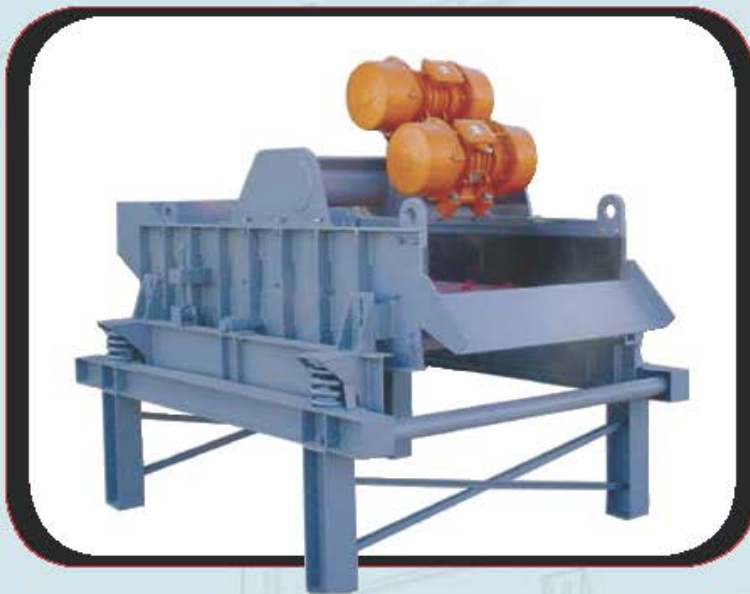
## SINGLE-DECK TWIN VIBRATOR

Select from 3 models:

DS-488

DS-6010

DS-7212



Wash a broader range of spec aggregate product.



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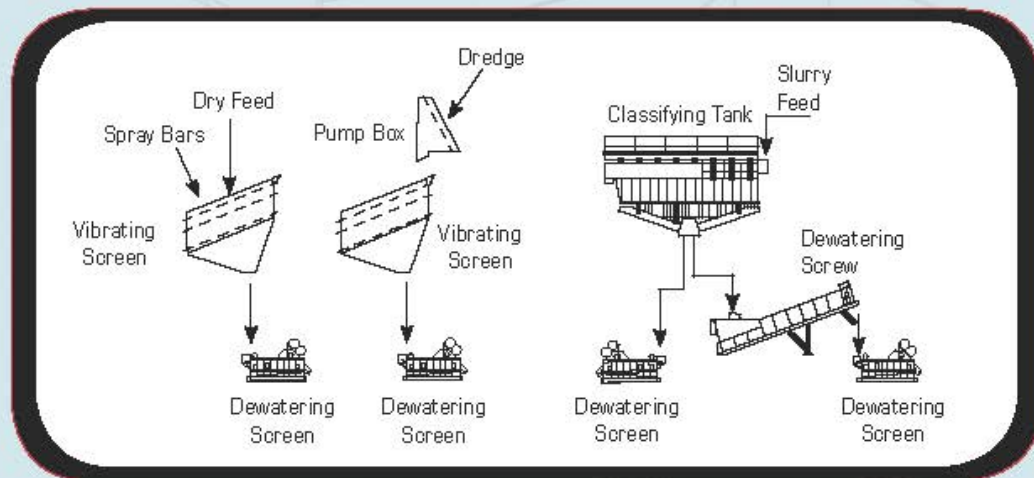
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## DEWATERING SCREENS

You can count on GreyStone's Dewatering Screens to help you turn material washing problems into profitable solutions and meet the specification demands for multiple sand products. Manufactured for years of dependable, operator-friendly performance, GreyStone's Dewatering Screens have a frame and body built of ½-inch steel plate, utilizing heavy, round and square tubing and urethane wear parts.



### Customized Designs

With GreyStone's 30 classifier configurations and the ability to supply all your washing and classifying equipment needs - from hoppers and feeders to coarse material and blade washers, fine material washers, screens, conveyors and clarifiers - GreyStone can custom-design a complete operation to meet your specific application and production requirements.

GreyStone offers three models of dewatering screens to handle a variety of capacities, including the **DS-488**, **DS-6010** and **DS-7212**, to efficiently dewater up to 300 tons per hour. GreyStone's Dewatering Screens are constructed of high-quality ASTM A36, ½-inch structural steel for years of trouble-free service life.

All GreyStone units are built with a dedication to innovative design and quality workmanship unmatched in the industry. Whatever the application, GreyStone has the knowledge, experience, equipment and operating software programs for you to reach your production goals. Send us a sample of your pit run material for a FREE sieve analysis and recommendation from your GreyStone experts.

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## A NEW SOLUTION TO DEWATERING

GreyStone's high-frequency separator allows producers to easily adjust bed depth, table tilt and vibrator variables in order to remove up to 50 percent of the water from your material, while maintaining maximum production no matter how wet the material is. It utilizes two vibrators that initiate a linear motion, driving particles in an uphill, downhill or horizontal direction - so water is strained down through the sand bed and below the screen deck.



Each unit receives a high percentage of water-saturated fine material and produces a dense, compact cake that rides up the belt and forms a pile with no runoff or water pools. This provides a dry, transportable product that can be sold in a short period of time.

GreyStone's Dewatering Screens utilize a urethane deck with a  $\frac{1}{4}$ -mm aperture that allows the user to dewater a broad range of particle sizes. The deck can handle up to 14 inches of material depth, making use of the bottom thin layer of material as a secondary "screen," allowing the deck to preserve fines smaller than 200 mesh.



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## WHY CHOOSE GREYSTONE'S

Once setup is achieved with favorable steady-state conditions, operation is as simple as starting the motors with the flip of a switch, and letting the screen do its job without further concern. One of the greatest benefits of operating GreyStone's Dewatering Screens is having the ability to adapt to each plant's unique material by combining the adjustable motor force with the adjustable bed tilt.



With GreyStone's Dewatering Screens, the days of air drying are gone. Most concrete and masonry sands typically retain from 18 to 24 percent moisture, which requires drying time in the pile. At process end, our dewatering screens cut that moisture down to as low as 10 percent - providing salable material in less than a day.

In addition, these screens eliminate those annoying pools of water around equipment. The sand pile produced from our screens will stack high and nearly dry, without forming water pools at the base.



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## DEWATERING SCREENS?

### GREYSTONE'S SINGLE-DECK DEWATERING SCREEN SPECIFICATIONS

|  |   |                      |                      |
|--|---|----------------------|----------------------|
| Vibration                                      | Linear  |                      |                      |
| Vibrator type                                  | (2) 7 hp, 60 hz, 230/460 volt, 1,800 rpm martin vibrators |                      |                      |
| Deck type                                      | Flat urethane with water diverters                        |                      |                      |
| Aperture size                                  | .25 mm x .12 mm   |                      |                      |
| Bed angle                                      | Adjustable -5 deg. to +5 deg.                             |                      |                      |
|  | <b>4' x 8' Deck</b>                                       | <b>5' x 10' Deck</b> | <b>6' x 12' Deck</b> |
| Bed area                                       | 32 sq. ft.  | 50 sq. ft.           | 72 sq. ft.           |
| Screen dry weight                              | ~4,500 lb.  | ~6,500 lb.           | ~9,500 lb.           |
| Motor setting                                  | 50%b  | 75%b                 | 100%b                |
| Total g-force max @ factory motor setting      | ~3.2 G @ 50%b   | ~4.8 G @ 75%b        | ~6.4 G @ 100%b       |
| <b>MOTOR MECHANICAL CHARACTERISTICS (each)</b> |   |                      |                      |
| Weight   | 429 lb.   | 429 lb.              | 429 lb.              |
| RPM  | 1,800   | 1,800                | 1,800                |
| Working moment                                 | 316 in-lb.  | 316 in-lb.           | 316 in-lb.           |
| Max static moment                              | 158 in-lb.  | 158 in-lb.           | 158 in-lb.           |
| Unbalance                                      | 15.8-158.1 in-lb.   | 15.8-158.1 in-lb.    | 15.8-158.1 in-lb.    |
| Centrifugal force                              | 1,452 lb.-14,250 lb.                                      | 1,452 lb.-14,250 lb. | 1,452 lb.-14,250 lb. |



"The most portable screening and washing plants around."

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## STANDARD COMPONENTS

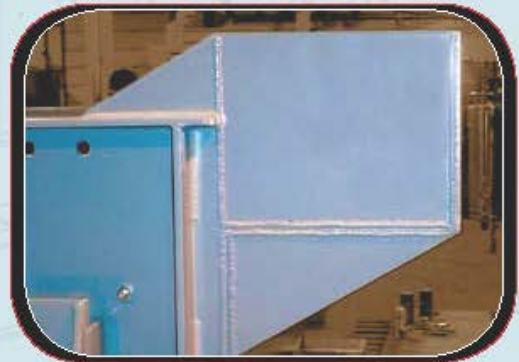


### Rigid Single-Member Deck

The GreyStone deck is a single-member weldment, utilizing heavy pipe cross members for a base that supports reinforced steel U-channels. These rigid U-channels provide for easy access and application when replacing individual sections of urethane screen.

### Feed Box

The feed box is mounted prior to the urethane deck to absorb the initial impact while distributing the feed. It is fabricated from A36 ½-inch steel and can be lined as requested. The feed box is also customized to any size and shape required. Two strips of angle iron run across the length of the bottom to hold material and create a natural wear surface.



### Dual Vibrating Motors

Two single mechanism vibrators create a linear motion for removing excess water from material. The single mechanism requires minimal maintenance and allows for easy application. Each vibrator can be easily set to increase its centrifugal force, resulting in higher production and a drier product - providing the user with the ability to adapt the material for production.

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## T FEATURES & BENEFITS

### Urethane Deck

GreyStone's Dewatering Screens have urethane decks, which resist wear and provide long life. They contain water dividers that divert material over the region where water passes through the screen, while  $\frac{1}{4}$ -mm openings allow water to pass freely through - holding back material on the top side of the deck. When dewatering finer material, the lower layer of sand acts as a secondary filter that retains 99 percent of the material with the product, while only one percent goes to waste. On average, a concrete or masonry sand product achieves a final water-to-material ratio of 1:10.



### Urethane Side Screen

GreyStone's urethane side screen liners are replicas of our deck screens, without the dividers. These liners contain the same  $\frac{1}{4}$ -mm aperture for water removal, but are fastened to the inside of the screen. They have open channels on the inside-bottom that freely allow water to escape to the under-flume, causing the initial pool of water on the feed side to flow around the material without having to travel through it like most other screens. As water flows around the sand bed and side liners, the water that enters with the product has a clearer path through the individual particles and separates more quickly. A large portion of water is removed before having to travel through the bed depth, and a higher percentage of dry product is obtained at a greater production rate.

### +/- 5-Degree Bed Angle Tilt

The bed can tilt from a 5-degree-uphill to 5-degree-downhill slope. Depending on the material volume, gradation and water retention, the user can send the product downhill for higher production or uphill to create a deeper bed depth - forcing more water to the under-flume. In a matter of minutes, the bed angle can be changed and locked into place, ready for production. Having the ability to change the bed angle gives the operator more control for adaptation to feed and gradation changes.

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- Single & Twin Fine Material Dewatering Screws
- Dewatering Screens
- Single & Twin Coarse Material Washers
- Logwashers
- Sand Classification Tanks & Systems
- Advanced Computer Control Systems
- Portable Sand Plants
- Water Clarifiers
- Rotary & Vibrating Screens
- Portable Conveyors & Radial Stackers
- Blade Mills
- Portable Screening Plants
- Twin Jets
- Cutter Heads
- Aggregate Reclaiming Systems



At GreyStone, we have the industry's most experienced people in washing & classifying application solutions, systems & controls engineering and field service. And when we combine this depth of experience with the most complete, proven product line in the business, your challenges quickly become opportunities.



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