Wash a broader range of spec aggregate product.

GreyStone®

Fine Material Dewatering Screws

Both Single & Twin Models

Fine Material Washers & Dewatering Screws

You can count on GreyStone Fine Material Dewatering Screws 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 service, GreyStone washers and dewatering screws allow producers to wash a broader range of spec aggregate product sizes. Only GreyStone Fine Material Dewatering Screws are capable of washing aggregate up to 3/4 inch.

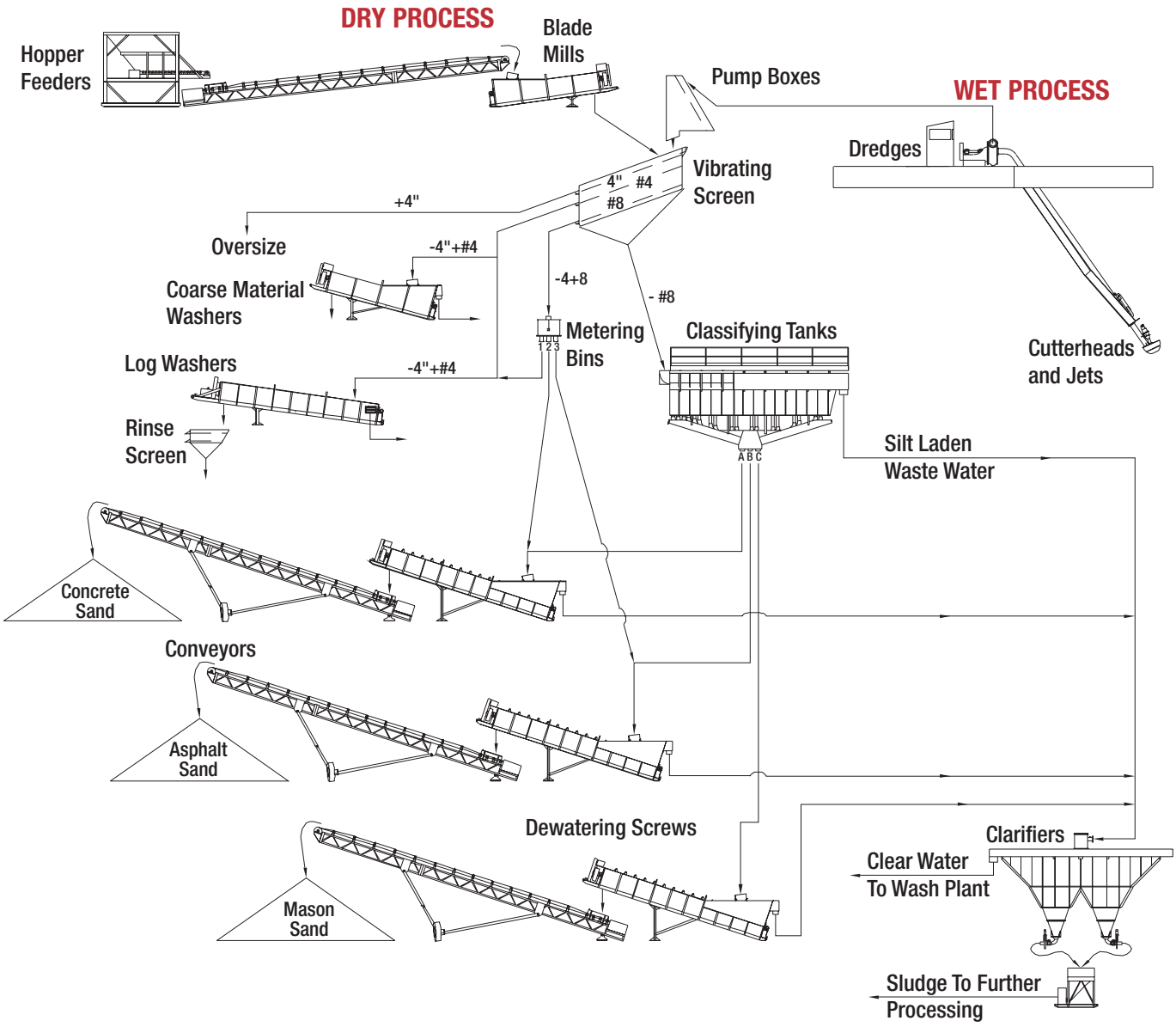
Customized Designs

In conjunction with GreyStone's 30 different classifier configurations and the capability to supply all your washing and classifying equipment needs, from hoppers and feeders to log washers, coarse material washers, blade mills, screens, conveyors and clarifiers,

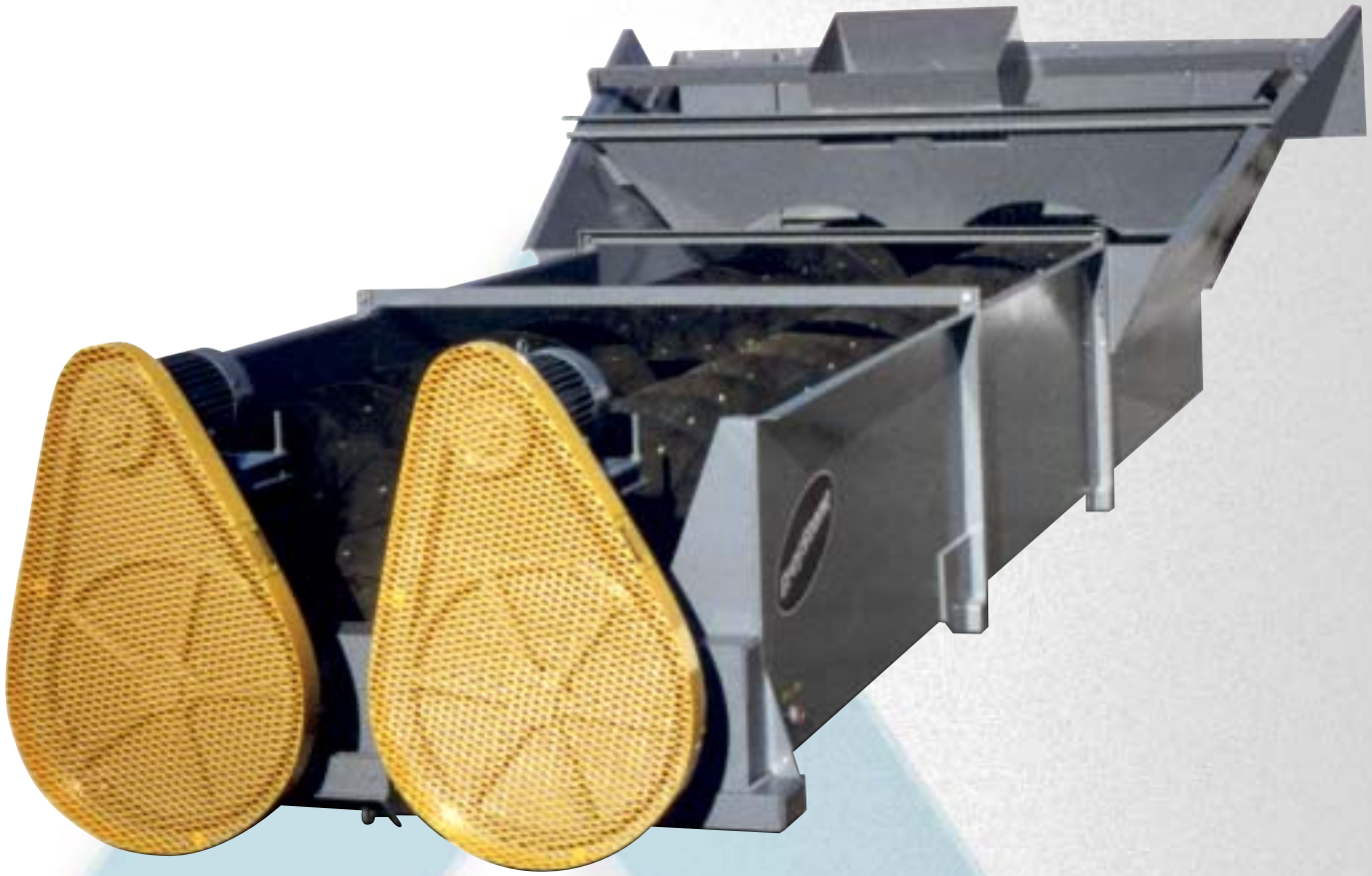
GreyStone can custom design a complete operation to meet your specific application and production requirements. Single or twin models offer a variety of size ranges, overflow water capacity and production levels as high as 1100 TPH for a twin dewatering screw unit. GreyStone washers are constructed of high-quality ASTM A36 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 and 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 examination and recommendation from your GreyStone experts.

FROM COMPLETE OPERATIONS TO SPECIFIC EQUIPMENT



Model “E” Specifications



* M = Mesh size retained while overflowing estimated G.P.M.

** Shims must be placed under the shaft bearings to allow processing up to 3/4" material.

The tonnage capacity tables given here are based upon peak operation of the unit. Be sure you select a unit large enough for the peak load (100 lbs. per cubic foot aggregate).

Model “E” SINGLE UNITS

Size	Tons Per Hour	Screw Speed FPM	RPM	Max. Mat. Size**	Horse Power	Overflow Water Capacity 100 M*	150 M*	200 M*
12" x 14'	20 15 10 5	120 90 60 30	40 30 20 10	3/8"	3 3 3	150	100	50
24" x 24'	50 38 25	200 150 100	32 24 16	3/8"	7.5 5 5	500	225	125
30" x 24'	75 60 50	200 150 100	25 19 13	3/8"	15 10 7.5	575	275	160
36" x 25'	100 75 50	200 150 100	20 15 12	3/8"	15 10 7.5	700	330	180

Model “E” TWIN UNITS

Size	Tons Per Hour	Screw Speed FPM	RPM	Max. Mat. Size**	Horse Power	Overflow Water Capacity 100 M*	150 M*	200 M*
24" x 24'	100 76 50	200 150 100	32 24 16	3/8"	(2) 7.5 (2) 5 (2) 5	890	420	235
30" x 24'	150 120 100	200 150 100	25 19 13	3/8"	(2) 15 (2) 10 (2) 7.5	1000	490	280
36" x 25'	200 150 100	200 150 100	20 15 10	3/8"	(2) 15 (2) 10 (2) 7.5	1250	620	340

Fine Material Dewatering Screw Specifications

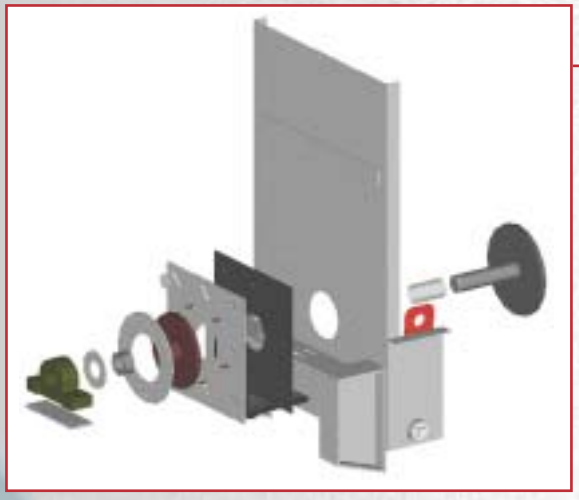
SINGLE UNITS								
Size	Tons Per Hour	Screw Speed FPM	RPM	Max. Mat. Size**	Horse Power	Overflow Water Capacity 100 M*	150 M*	200 M*
36" x 28'	100 75 50	200 150 100	20 15 10	3/8"	15 10 7.5	700	330	160
44" x 32'	175 130 85	200 150 100	17 14 10	3/8 "	20 15 10	1600	750	425
48" x 35'	200 150 100	200 150 100	16 12 8	3/8 "	25 20 15	1700	850	450
54" x 35'	275 210 140	200 150 100	15 12 8	3/8"	30 25 20	1900	950	575
60" x 35'	340 255 170	200 150 100	13 9 5	3/8"	40 30 25	2200	1050	600
66" x 35'	400 300 200	200 150 100	14 11 8	3/8"	50 40 30	2400	1200	650
72" x 38'	475 360 240	235 180 126	13 10 7	3/8"	60 50 40	2600	1300	700
84" x 38'	600 450 300	260 160 110	11 8 5	3/8"	75 60 50	3100	1600	850

TWIN UNITS								
Size	Tons Per Hour	Screw Speed FPM	RPM	Max. Mat. Size**	Horse Power	Overflow Water Capacity 100 M*	150 M*	200 M*
36" x 28'	200 150 100	200 150 100	20 15 10	3/8"	(2) 15 (2) 10 (2) 7.5	1250	620	340
44" x 32'	350 260 170	200 150 100	18 14 10	3/8"	(2) 20 (2) 15 (2) 10	2800	1400	675
48" x 35'	400 300 200	200 150 100	16 12 8	3/8"	(2) 25 (2) 20 (2) 15	3000	1450	750
54" x 35'	550 412 275	200 150 100	15 12 8	3/8"	(2) 30 (2) 25 (2) 20	3500	1750	950
60" x 35'	680 510 340	200 150 100	13 9 5	3/8"	(2) 40 (2) 30 (2) 25	3700	1800	975
66" x 35'	800 600 400	200 150 100	14 11 8	3/8"	(2) 50 (2) 40 (2) 30	4000	2000	1200
72" x 38'	950 710 475	235 180 126	13 10 7	3/8"	(2) 60 (2) 50 (2) 40	4500	2200	1250

*M = Mesh size retained while overflowing estimated G.P.M.
**Shims must be placed under the shaft bearings to allow processing up to 3/4" material.

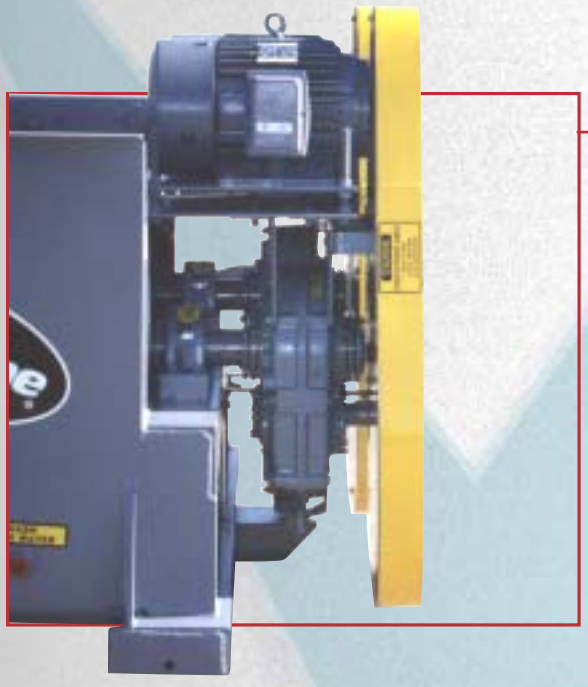
The tonnage capacity tables given here are based upon peak operation of the unit. Be sure you select a unit large enough for the peak load (100 lbs. per cubic foot aggregate).

Standard Component Features and Benefits



Lower Stub Assembly

GreyStone's exclusive adjustable screw shaft allows you to control the clearance between the belly pan and the screw flights and accommodates up to 3/4 inch aggregate in the Fine Material Dewatering Screw. The heat-treated shaft is fitted into a stainless steel wear sleeve and fitted with a heavy-duty rubber gasket that fits snugly between the seal retainer and tub. A specially designed slinger fits perpendicular to the shaft between the roller bearing and sleeve and turns with the shaft, adding protection to the outboard bearing and preventing bearing failure that may result from seal leakage. The outboard bearing design allows for easy access and maintenance.



Motor and Drive Assembly

The shaft-mounted gear reduction is totally enclosed within an oil-bath gearbox. Designed for easy service and maintenance, you can custom tailor the washing action of your material with a simple change of the drive pulley on the motor. All standard electric motors are 230/460 volt, 3-phase, 60 cycle.

GreyStone uses standard off-the-shelf, fully enclosed, Falk or Dodge gear-box drive units, which can be serviced in all metropolitan cities.

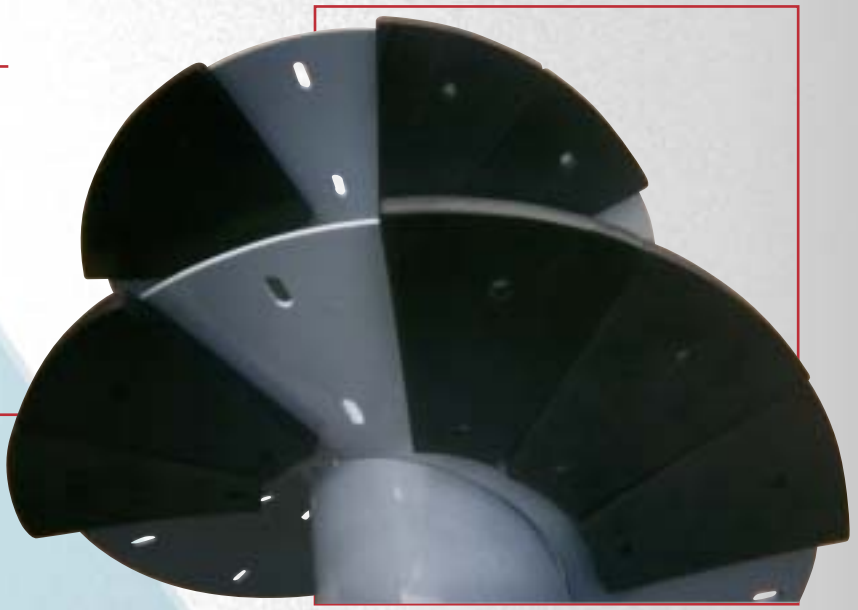
Torque Arm Speed Reducers

Greystone uses the leading shaft mounted speed reducers. Rugged, cast-iron provides a corrosion-resistant housing for positive gear alignment. The helical design of the gear teeth feature a softer core to resist shock loads and provide a 98.5% efficiency rating per set of gears. In order to keep dirt and grime out and oil in, the reducers are sealed with metallic double-lip seals. This all adds up to a torque arm speed reducer that assures long life and trouble free service.

Illustration provided courtesy of Rockwell Automation

Steel Shaft and Flights

The spiral type half-pitch steel screw flights are welded to the heavy seamless tubular steel shaft. Each spiral flight is placed on the shaft to ensure a uniform spiral movement of the material. Adjusting your screw shaft speed allows for maximum capacity and tailors the washing action upon your material.



Adjustable Wear Shoes

GreyStone's standard 1" thick **Rock Grade** rubber wear shoes are complete with a full steel backing plate for rigidity. Rubber wear shoes offer best cost to tonnage ratio of all the shoe materials available. Additionally, the shoes may be adjusted out to extend the shoe life.

GreyStone offers urethane and ni-hard shoes for special applications.

Rising Current Belly Pan

Rising current water enters the pool from the bottom of the perforated belly pan and filters up, separating fines, dirt and other extraneous matter that is then carried to the top and forced out with the overflow. The curved belly pan allows for efficient classification, and provides you with a properly dewatered sand material.

Heavy-Duty Tub, Feed Box and Baffle

Constructed of ASTM A36 certified, heavy steel plate with angle iron skid frame, the large tub allows for maximum weir length and sand recovery. Adjustable weirs on the three-sided overflow area can be set to level the overflow and ensure the retention of the fine sand. The feed box and baffle are designed to effectively control the velocity of the aggregate being introduced into the screw tub and prevent the loss of fines. Efficient overflow distribution reduces the turbulence within the pool area, allows for the uniform flow of material and prevents fine sand from flushing out with the over flow water.

Other Standard Components:

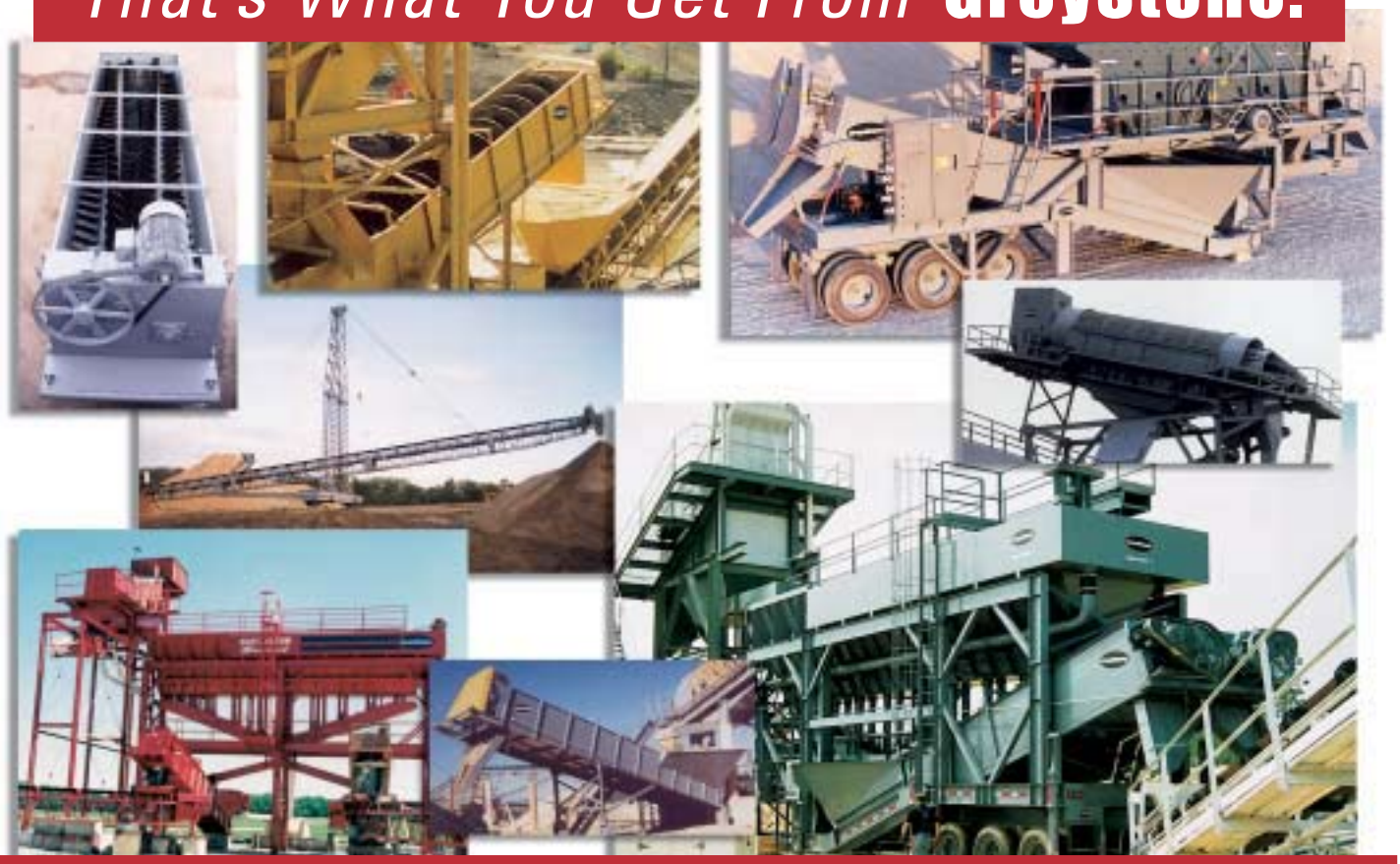
External Pillow Block Bearings – standard off-the-shelf items externally mounted for ease of maintenance.

Clean Out Drain – easy access, clean-out drain is provided for complete draining of the reservoir.

Exclusive **Heavy-Duty Skid Frame** –allows you to skid the unit into proper operating position *without the use of a crane* and adds to the overall structured integrity.

One Company. One Focus. Great Results.

That's What You Get From GreyStone.



Individual Equipment To Complete Customized Washing & Classifying Operations

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.

- Portable & Semi-Portable Washing/Screening Plants
- Single & Twin Fine Material Dewatering Screws
- 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

888-346-WASH

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