



**Wash a broader range of  
spec aggregate product**

**GreyStone**

**Log Washers**

*Select From 5 Models: 24" to 46"*

# Log Washers

You can count on GreyStone Log Washers to help you turn material washing problems into profitable solutions and meet the specification demands for multiple rock products. Manufactured for years of dependable, operator-friendly performance, GreyStone Log Washers allow producers to wash a broader range of spec aggregate product sizes from 2-inch to 4-inch\*.

## Customized Designs

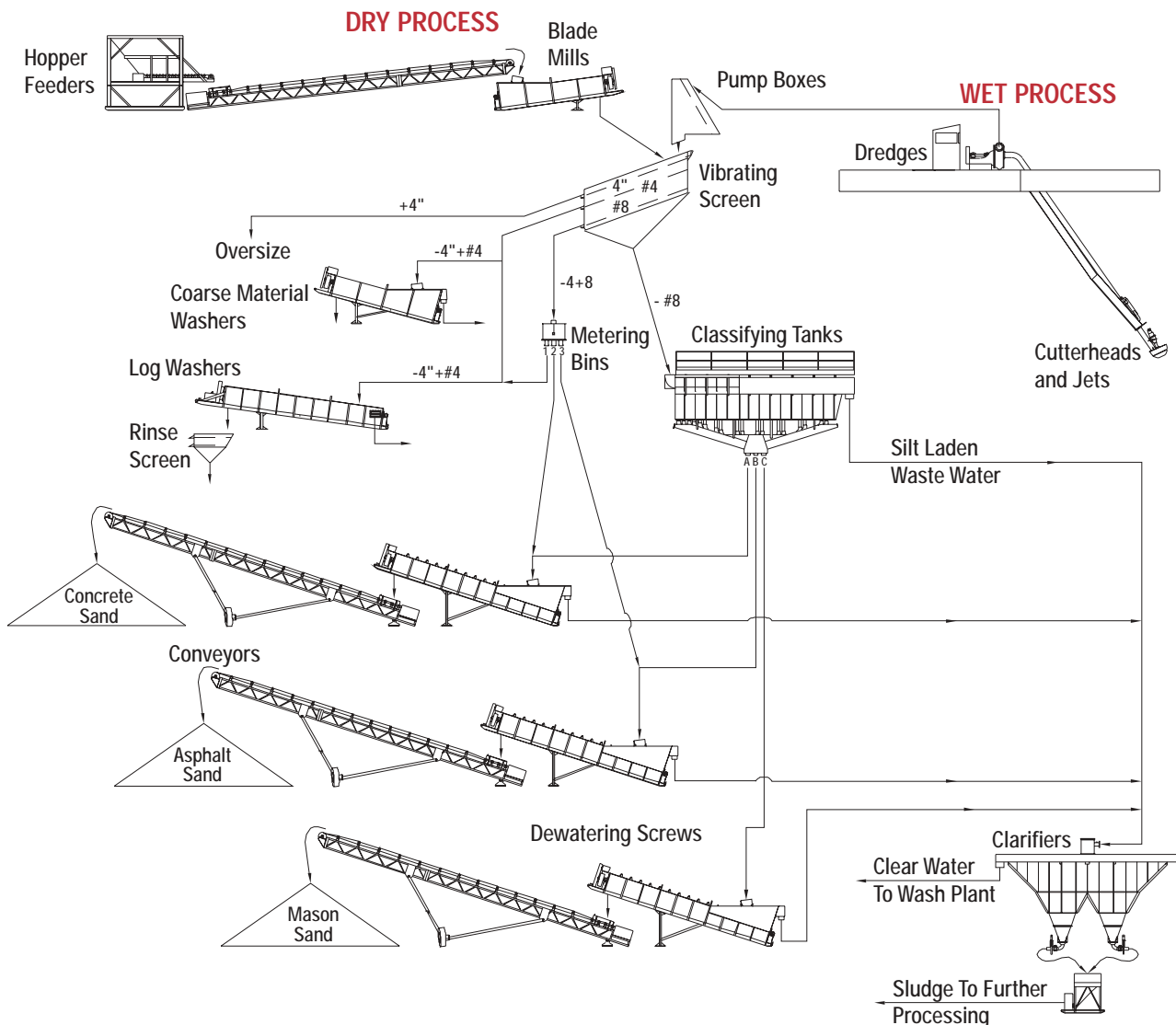
With GreyStone's 30 different classifier configurations and the capability to supply all your washing and classifying equipment needs – from hoppers and feeders to coarse material and blade washers, fine material washers, screens, conveyors and clarifiers – GreyStone can custom-design a complete operation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

specific application and production requirements. GreyStone Log Washers come in five models and offer a variety of sizes, overflow water capacity and production levels as high as 190 TPH. GreyStone Log 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 sieve analysis and recommendation from your GreyStone experts.

\* measured the longest direction

## FROM COMPLETE OPERATIONS TO SPECIFIC EQUIPMENT





#### 24" to 46" Models

Size	Log Diameter	Tub Length	Max.Mat. Size*	RPM	Horse Power	Capacity/Tons Per Hour	Empty Est/ Weight (lbs)	Water Req. GPM
24" x 20'	24"	20'	2"	40	40	30 - 60	30000	60 - 300
36" x 25'	36"	25'	3"	33	75	50 - 125	33500	60 - 500
36" x 30'	36"	30'	3"	33	100	50 - 125	38500	60 - 500
36" x 35'	36"	35'	3"	33	150	50 - 125	44500	60 - 500
38" x 30'	38"	30'	2.5"	30	150	60 - 140	41000	60 - 550
38" x 35'	38"	35'	2.5"	30	150	60 - 140	49500	60 - 550
44" x 25'	44"	25'	4"	26	125	75 - 175	45000	80 - 750
44" x 30'	44"	30'	4"	26	150	75 - 175	48000	80 - 750
44" x 35'	44"	35'	4"	26	200	75 - 175	51000	80 - 750
46" x 30'	46"	30'	3.5"	24	200	75 - 190	51000	80 - 800
46" x 35'	46"	35'	3.5"	24	200	75 - 190	54000	80 - 800

\* All measurements are in reference to longest length

Tonnage capacity tables are based on peak operation of the unit (100 lbs per cubic square foot of aggregate). A high percentage of the maximum-sized material or crushed stone will reduce the plant capacity. Customarily, the Log Washer tubs are operated at an angle between 6° and 10°. These capacities are rated at a slope of 8°. Increasing the tub slope beyond our standard 8° will reduce the tonnage capacity. The higher degree of incline will produce your greatest scrubbing and abrading action. Soluble and plastic clays should not exceed 10% within your allowable spec product.

All specifications are based on the use of electric motors and on the processing of gravel. Throughput capacities are approximate and will vary depending on the type of material, moisture content, amount of fines in the feed, plant feed efficiency and equipment maintenance. No plant capacity projections used here are guaranteed due to these variables.

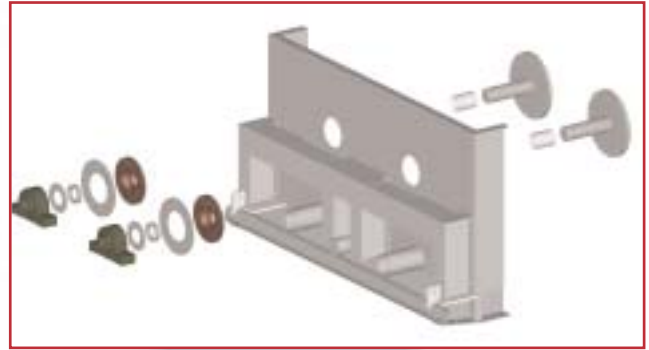
For illustrating product features, machines may be shown without standard-equipped safety guards. All design dimensions are subject to change without notice.

# Standard Component Features and Benefits

## Shaft Assembly

GreyStone's exclusive heat-treated shaft is fitted into a hard, stainless steel spacing 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 occur from seal leakage.

The heavy, seamless steel log shafts have flanges welded to both ends that are then precision-ground to provide maximum service.



## Motor and Drive Assembly

The Log Washer shaft is driven by twin-helical, synchronized precision gears and is totally enclosed within an oil-bath gearbox. The unit is designed with externally mounted bearings for easy pressure lubrication, service and maintenance. All standard electric motors are 230/460 volt, 3-phase, 60 cycle, and you can tailor the washing action of your material with a simple change of the drive pulley on the motor.

GreyStone uses drive units and bearings that can be serviced in all metropolitan cities.



## Speed Reducers

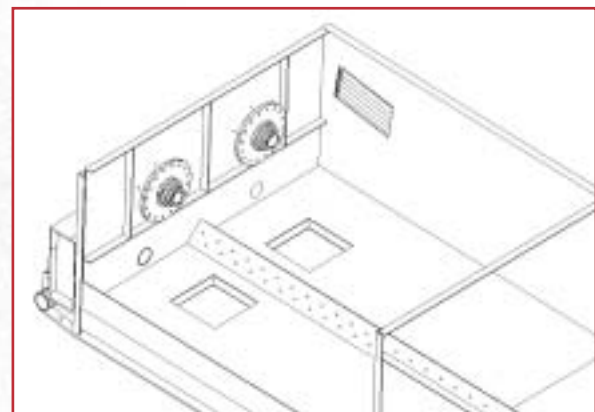
GreyStone uses leading manufacturers' shaft-mounted speed reducers with rugged, cast-iron, corrosion-resistant housing for positive gear alignment. The helical design of the gear teeth has a soft core that resists shock loads and provides a 98.5 percent efficiency rating per gear set. Dual out-put shafts with timed gears allow for inter-locking of paddles. In order to keep dirt and grime out and oil in, the reducers are sealed with metallic double-lip seals. All this ensures maximum life and trouble-free service.



## Rising Current Injection

Rising current water is injected between the log shaft through a perforated, dome-shaped injection system and filters up, separating fines, dirt and other extraneous matter that is then carried to the top and forced out with the overflow. Additional water may be added through spray bars mounted along the top of the tub.

It is recommended that aggregate be pressure-sprayed on a screen following the log wash.





## Heavy-Duty Tub

Constructed of ASTM A36-certified, heavy steel plate with angle iron skid frame, the large tub protects the bearing, gearbox and V-belt drive and offers rigidity during operation.

**Exclusive Heavy-Duty Skid Frame** –allows you to skid the unit into proper operating position and adds to the overall structural integrity.

## Other Standard Components

**External Pillow Block Bearings** – standard off-the-shelf items externally mounted for ease of maintenance. Bearings are protected by a special water sling in case of seal leakage.

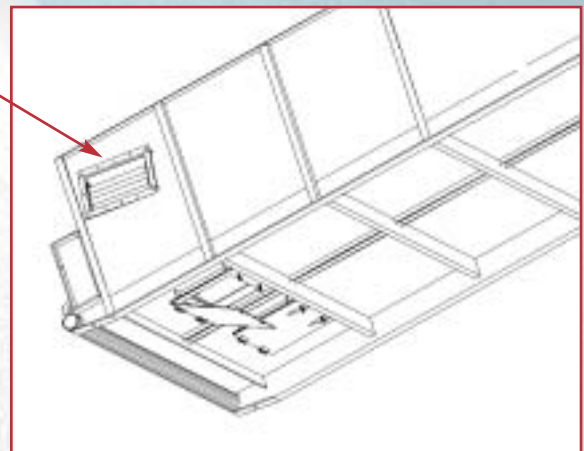
**Side Overflow Doors** – equipped with adjustable slat weirs to skim off deleterious material and excess water. One or both sides can be used.



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

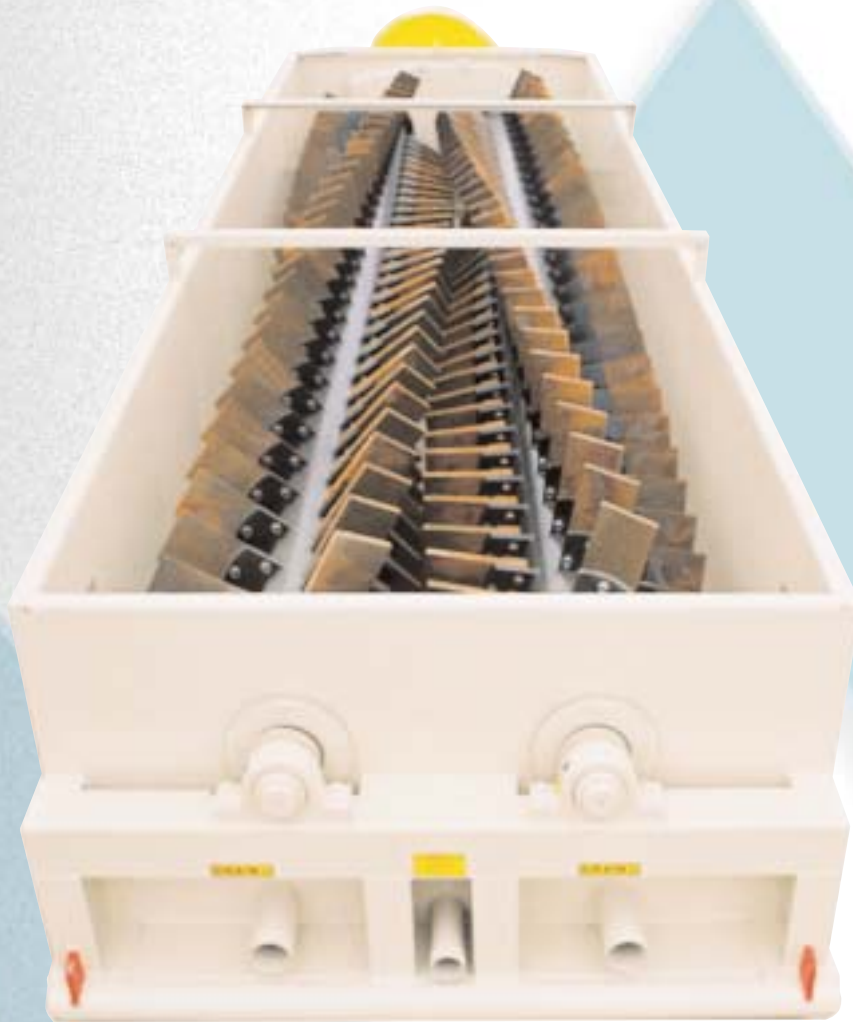
## Optional Components

**Final Rinse Spray Bar** – removes film and residue material from product. Mount above and between the paddle shafts at the dry deck end.



**Bottom Clean-Out Doors** – Material can be easily washed from the tub area through the bottom clean-out doors.

# Spiral Paddle Designs



## Spiral Paddle Design

GreyStone Log Washers offer a unique spiral paddle positioning along the log shaft, providing continuous motion in the material for superior performance. The continuous agitation of the material results in maximum scrubbing action, reduces energy requirements and eliminates intermittent shock loading on the shaft and gearbox.



### ***Heavy-Duty Flex Couplings and Spider Design***

GreyStone heavy-duty flex couplings prevent misalignment and provide maximum production and long wear life. They also allow easy removal of the log shaft for maintenance or repair.

### ***Wear Paddles, Paddle Base and Log Shafts***

The unique paddle base design provides three bolt holes per paddle. The Ni-Hard wear-resistant paddles provide extra strength to eliminate paddle breakage and provide maximum wear life. All GreyStone wear shoe paddles are mounted to the bases with Grade 8 bolts and are installed at the proper angle to the extra-heavy ASTM seamless steel log shaft for maximum washing action and highest possible production.

Ni-Hard wear paddles provide maximum service life with minimum maintenance requirements and are standard on all GreyStone Log Washers.

# 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  
Log Washers  
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

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**888-346-WASH**

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