

Eagle Iron Works

THE LEADER IN AGGREGATE PROCESSING EQUIPMENT

Coarse Material Washers

Single Screw Units
Double Screw Units



Eagle Coarse Material Washers provide light to moderate scrubbing and washing to remove soluble clays and dust coatings that are encountered in natural and crushed stone applications. The scrubbing and attrition of deleterious materials is accomplished by the action of the corrugated paddles cutting through the slurrified material. This action results in particle on particle scrubbing to promote the separation of coatings from the coarse aggregate. The combined action of the paddles along with the rolling and tumbling generated by the rotating spirals releases deleterious materials from the product material into the overflowing wastewater.

Each Eagle Coarse Material Washer is fabricated with a rising current manifold to provide an upward current of water to assist in removing unwanted materials. Deleterious materials of light specific gravity such as twigs, sticks, and lightweight coals are floated by the rising current of water and the jiggling action of the paddles within the tub. The deleterious materials are then removed by the overflowing wastewater.

Due to the varying types of materials each Eagle Coarse Material Washer will encounter, each washer can be configured to meet specific scrubbing needs by adding more paddles to the conveying shaft(s). Additional paddles allow material to be retained in the tub area for additional scrubbing.

Blade Mill Set-Up

The Eagle Blade Mill is a modified coarse material washer with a full set of paddles for increased scrubbing capabilities. Blade Mills operate flat with no rear overflow and are generally used for pre-scrubbing raw feeds that contain high quantities of soluble silt and clay materials as well as materials failing to meet sand equivalency specifications. The Eagle Blade Mill also substantially enhances screening efficiency by breaking down soluble clays into a pre-mixed slurry.



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Eagle Single Screw & Double Screw Coarse Material Washer Features

Coarse Material Washers

Single Screw Units
Double Screw Units



Eagle Gear Reducer

- Designed & built at Eagle facilities
- Heavy-duty design with heat-treated helical gears
- 100% of the shaft's thrust load carried by the output shaft(s)
- Oil bath lubrication for maintenance-free operation
- Drive guards standard equipment

Conveyor Shaft

- Extra-thick, one piece shaft tubing
- Four set of paddles standard
- Paddle and flight sections easily changeable in the field
- Number of paddles on shaft can be increased to improve scrubbing

Conveyor Shaft Flights

- Protected by replaceable Ni-Hard wear shoes, 600 Brinell hardness
- Wear shoes cover the full face of spiral
- Flight segments are mounted to shaft via cast hubs.
- Heavy-duty cast hubs also provide shaft wear protection

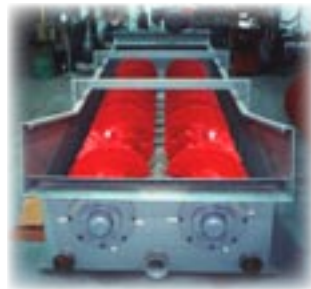


Conveyor Shaft Paddles

- Replaceable Ni-Hard scrubbing paddles, 600 Brinell hardness
- Feature corrugated face for additional scrubbing capabilities
- Three bolt fastening system and protective "wrap around" design
- Paddle segments mounted to shaft via cast hubs
- Heavy-duty cast hubs also protect shaft from wear.

Washer Tub

- Fabricated with thick gauge steel
- Close clearance curved plate runs entire length of shaft
- Adjustable end weir for improving trash removal capabilities
- Rising Current Manifold
- Spherical-roller rear grease bearing(s)
- High-efficiency electric motor(s)



Optional Equipment

- Discharge Chute
- Washer Supports
- Safety Covers
- Pillow-Block Rear Bearing(s)

Single Screw Coarse Material Washers

Single Screw Washer	Maximum Capacity	Max. Material Size	Water Req'd	Elec. Motor H.P.	Shaft R.P.M.	Machine Wt. (lb.)	Mach. Operating Wt. (lb.)
22" Dia. x 18'	45 to 55	2"	250 to 350	10	40	6,050	10,650
24" Dia. x 18'	60 to 75	2"	300 to 400	15	40	7,100	15,350
30" Dia. x 18'	100 to 125	2 1/2"	350 to 450	20	35	9,450	22,250
36" Dia. x 18'	150 to 175	2 1/2"	400 to 600	30	32	12,150	30,350
44" Dia. x 20'	200 to 250	3"	500 to 750	40	26	20,600	36,500

Double Screw Coarse Material Washers

Double Screw Washer	Maximum Capacity	Max. Material Size	Water Req'd	Elec. Motor H.P.	Shaft R.P.M.	Machine Wt. (lb.)	Mach. Operating Wt. (lb.)
30" Dia. x 18'	200 to 250	2 1/2"	600 to 800	40	35	17,150	35,350
36" Dia. x 18'	300 to 350	2 1/2"	700 to 900	50	32	22,000	49,800
44" Dia. x 20'	400 to 500	3"	900 to 1100	75	26	34,400	69,000

Single & Double Washer Notes:
Capacity ratings based on stockpiled materials and are for reference only.



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