



COARSE MATERIAL WASHER

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 slurry. 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.

OPTIONAL EQUIPMENT

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

Note: 44" Single & Double Coarse Material Washers feature formed steel spirals and paddle hubs which are welded to the shaft.

DESIGN FEATURES

- Eagle's designed and built Heavy Duty Gear Reducer
- Extra-thick, one piece shaft tubing
- Replaceable Eagle Armor wear shoes and Paddles
- Six set of paddles standard
- Paddle and flight sections easily changeable in the field
- Number of paddles on shaft can be increased to improve scrubbing
- Heavy-duty cast hubs also provide shaft wear protection
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- Washer tub is 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)

Single Screw Coarse Material Washers

Size (Dia. x Length)	Maximum Capacity (TPH)	Maximum Material Size	Water Required (GPM)	Electric Motor (HP)	Shaft (RPM)	Machine Wt. Empty (lb.)	Machine Wt. Operating (lb.)
22" x 18'	45 to 55	2"	250 to 350	10	40	6,050	10,650
24" x 18'	60 to 75	2"	300 to 400	15	40	7,100	15,350
30" x 18'	100 to 125	2.5"	350 to 450	20	35	9,450	22,250
36" x 18'	150 to 175	2.5"	400 to 600	30	32	12,150	30,350
44" x 20'	200 to 250	3"	500 to 750	40	26	20,600	36,500

Double Screw Coarse Material Washers

Size (Dia. x Length)	Maximum Capacity (TPH)	Maximum Material Size	Water Required (GPM)	Electric Motor (HP)	Shaft (RPM)	Machine Wt. Empty (lb.)	Machine Wt. Operating (lb.)
30" x 18'	200 to 250	2.5"	600 to 800	2 x 20	35	9,450	22,250
36" x 18'	300 to 350	2.5"	700 to 900	2 x 30	32	12,150	30,350
44" x 20'	400 to 500	3"	900 to 1,100	2 x 40	26	20,600	36,500
48" x 24'	500 to 600	3"	1,200 to 1,400	2 x 75	26	39,590	97,740

Paddles and Shaft - Coarse Material Washer



A look inside at the paddles and shaft of a coarse material screw washer.