



COARSE MATERIAL SCREW WASHER

McLanahan Coarse Material Screw Washers are rugged and reliable. They are used primarily to process crushed stone and gravel that generally range from 3/8" to 4" (9.5mm to 101mm). They effectively remove soluble clay, dirt, crusher dust and coatings that cannot be removed by wet screening alone. The turbulent paddle washing action (material-on-material scrubbing) combined with rising current water results in separation of the lighter fractions from the sound aggregate. The lighter fractions (i.e. clay and floating vegetation) rise to the surface and overflow the back weir. The desired clean product is then conveyed up the slope and discharged from the bottom of the washer box.

Selection

The selection of a Coarse Material Screw Washer (CMSW) is based on the type of material, desired capacity and maximum feed size. A CMSW is typically furnished with 20 paddles per shaft. More paddles can provide a greater washing action but at a reduced capacity. It is recommended that sand (generally minus 1/4" (6mm)) be screened out prior to using the CMSW, as finer material will cushion the washing action.

Features

Wear Shoes and Paddles

Full-depth wear shoes and reversible paddles on McLanahan Coarse Material Screw Washers are made from abrasion-resistant White Iron. Reversing some paddles can provide a longer retention time of the material in the washer box and improve the scrubbing action.

Optional Equipment

- Motors
- Front Supports
- Top Covers
- Discharge Chute

Submerged Bearings

The McLanahan Twin-Seal Pak submerged rear bearing assembly is standard on all washing equipment. This design incorporates Duo-Cone® seals that keep water and even the smallest particles from reaching the bearing. Pressure in the bearing housing is maintained between the seals to provide constant seal face lubrication, and a weep hole eliminates any possibility of seal damage from over greasing. The roller bearing is mounted outboard so that it can be removed for easy maintenance. Go 10 years doing nothing except adding grease? Impossible? Not with the McLanahan Twin-Seal Pak Bearing Assembly!

Duo-Cone® is a registered trademark of Caterpillar Inc.

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Figure 1) Rear View - Coarse Material Screw Washer paddles in the feed area wash gravel contaminated with mud.



Figure 2) Top View - Coarse Material Screw Washer paddles in the feed area wash gravel contaminated with mud.

Coarse Material Screw Washer Size and Capacity Chart						
	Size- Dia. x Length (Metric)	Speed RPM	Maximum Feed Size (mm)	Power HP (kW)	Capacity STPH (MTPH)	Water USGPM (m ³ /hour)
SINGLE	20" x 20' (508mm x 6.1m)	45	2" (50)	10 (7)	40 (36)	200-300 (45-68)
	24" x 20' (609.6mm x 6.1m)	40	2" (50)	15 (11)	60 (54)	300-400 (68-91)
	30" x 20' (762mm x 6.1m)	35	2.5" (63.5)	20 (15)	100 (91)	350-450 (80-102)
	36" x 20' (914mm x 6.1m)	30	2.5" (63.5)	30 (22)	150 (136)	400-600 (91-136)
	44" x 20' (1118mm x 6.1m)	25	4" (101)	40 (30)	200 (181)	600-800 (136-182)
DOUBLE	30" x 20' (762mm x 6.1m)	35	2.5" (63.5)	2 x 20 (2 x 15)	200 (181)	600-800 (136-182)
	36" x 20' (914mm x 6.1m)	30	2.5" (63.5)	2 x 30 (2 x 22)	300 (272)	700-900 (159-204)
	44" x 20' (1118mm x 6.1m)	25	4" (101)	2 x 40 (2 x 30)	400 (363)	800-1000 (182-227)
	54" x 25' (1372mm x 7.6m)	20	4" (101)	2 x 75 (2 x 26)	600 (544)	1200-1400 (273-318)