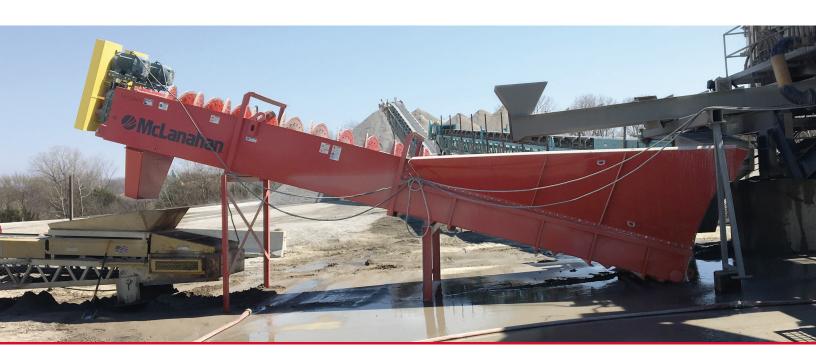


FINE MATERIAL SCREW WASHER



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McLanahan Fine Material Screw Washers (FMSW) are primarily used to dewater, classify and wash sand and other fine materials. The selection of a Fine Material Screw Washer is based upon the type of material, feed gradation, desired product specification, capacity required and water volume if in a slurry feed. All of these factors must be taken into consideration for proper sizing.

Guaranteed Capacity

From the start of your enquiry, our experts do their homework to best fit a McLanahan Fine Material Screw Washer to your site. Poor design and planning in these stages can lead to overflow of desired fine material, resulting in lost product and profit. We apply proven operational knowledge when determining the proper machine size by reviewing needed application data that includes slurry volume and your feed gradation data of water coming in with the feed. Now that you have an extra 1 to 2 tons every hour, multiply the hours you're running each year by the cost per ton of sand — that's how much extra money you have in your product pile!

Retain More Fines

Size for size, machine to machine, McLanahan Fine Material Screw Washers retain more product size fines than any other screw washer on the market. McLanahan Fine Material Screw washer boxes are designed with longer weirs and a larger pool area behind the baffle plate for retaining more +200 mesh (75 Micron) fines. Fine Material Screw Washers are designed with longer shafts for more dewatering, which results in a dryer product than with competitive units. They are a low cost, low power, sand processing solution that ensures you retain the optimal amount of fines.

Standard Equipment, Built For Your Application

McLanahan understands that every application is different, which is why we offer a wide range of sand washing equipment. Our Fine Material Screw Washers come in more sizes and configurations so that the appropriate size washer box and screw shaft(s) can be selected to accommodate the sand and water capacity. Wear shoes are available in multiple materials, including white iron, hardmac and premium urethane to handle different types of feed. Each Fine Material Screw Washer comes with the service and support for which McLanahan is known.

FINE MATERIAL SCREW WASHER

Single Fine Material Screw Washer Capacities and Specifications								
		Max USGPM (m³/h) for retaining down to:						
Screw - Diameter x Length (Metric)	Capacity - STPH (MTPH)	100 mesh (150 Micron)	150 mesh (100 Micron)	200 mesh (75 Micron)	100% Screw RPM	HP (kW)		
20" x 25'	35	503	329	185	38	5		
(508mm x 7.6m)	(31.75)	(114)	(75)	(42)		(3.7)		
24" x 25'	50	652	427	240	32	10		
(610mm x 7.6m)	(45.36)	(148)	(97)	(55)		(7.5)		
30" x 25'	80	789	516	290	26	15		
(762mm x 7.6m)	(72.58)	(179)	(117)	(66)		(11)		
36" x 25'	105	912	597	336	21	15		
(914mm x 7.6m)	(95.25)	(207)	(136)	(76)		(11)		
36" x 27'	105	912	597	336	21	15		
(914mm x 8.2m)	(95.25)	(207)	(136)	(76)		(11)		
44" x 33'	175	1771	1159	652	17	25		
(1118mm x 10.1m)	(158.76)	(402)	(263)	(148)		(18.5)		
54" x 35'	250	2023	1325	745	14	40		
(1372mm x 10.7m)	(226.8)	(460)	(301)	(169)		(30)		
66" x 38'	400	2274	1489	838	11	60		
(1676mm x 11.6m)	(362.87)	(517)	(338)	(190)		(45)		
72" x 42'	475	2660	1741	980	10	75		
(1828mm x 12.8m)	(430.91)	(604)	(395)	(223)		(56)		

Capacities are based on solids weight being 100 pounds per cubic foot (1.6 metric tons per cubic meter).

Double Fine Material Screw Washer Capacities and Specifications								
		Max USGPM (m³/h) for retaining down to:						
Screw - Diameter x Length (Metric)	Capacity - STPH (MTPH)	100 mesh (150 Micron)	150 mesh (100 Micron)	200 mesh (75 Micron)	100% Screw RPM	HP (kW)		
36" x 25'	210	1374	900	506	21	2 - 15		
(914mm x 7.6m)	(190.51)	(312)	(204)	(115)		2 - (11)		
36" x 27'	210	1374	900	506	21	2 - 15		
(914mm x 8.2m)	(190.51)	(312)	(204)	(115)		2 - (11)		
44" x 33'	350	2629	1721	968	17	2 - 25		
(1118mm x 10.1m)	(317.51)	(597)	(391)	(220)		2 - (18.5)		
54" x 35'	500	3100	2029	1142	14	2 - 40		
(1372mm x 10.7m)	(453.59)	(704)	(461)	(260)		2 - (30)		
66" x 38'	800	3434	2248	1264	11	2 - 60		
(1676mm x 11.6m)	(725.75)	(780)	(511)	(287)		2 - (45)		
72" x 42'	950	4028	2637	1483	10	2 - 75		
(1828mm x 12.8m)	(861.83)	(915)	(600)	(337)		2 - (56)		

Capacities are based on solids weight being 100 pounds per cubic foot (1.6 metric tons per cubic meter).

Fine Material Screw Washer Speeds						
Speed relationship to % passing 50 mesh (300 Micron)						
0 to 15%	100% Speed					
16 to 20%	75% Speed					
21 to 30%	50% Speed					
31 to 50%	25% Speed					
51 to 85%	16% Speed					

A screw speed reduction will proportionately reduce rated capacity. Example: a 25% reduction in speed reduces rated capacity by 25%.

