

Fine Material Screw Washers



McLanahan
CORPORATION

LPT GROUP • HSS SAMPLING

EQUIPMENT, SYSTEMS & PROCESS INNOVATION – SINCE 1835

McLanahan Fine Material Screw Washers Are Easy To Operate & Maintain!

FINE MATERIAL SCREW WASHERS SERVE THREE PRIMARY FUNCTIONS:

WASH - Removes slimes, silts and clays by allowing the material to roll and tumble upon itself, which causes material on material attrition. The waste particles are absorbed into the water and discharged over the weirs.

DEWATER - By moving material up an inclined box via a spiral screw shaft, free water is allowed to drain away from the material into a drainage trough.

CLASSIFY - Controlling the weir heights provides maximum retention of desirable product while allowing undesirable "fines" to float over the weirs.

SELECTION

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. The charts on the right only provide a starting point to size selection.

Please contact the McLanahan Sales Department or your authorized McLanahan representative for a final recommendation.

FINE MATERIAL SCREW WASHER SPEEDS

Speed Relationship To % Passing 50 Mesh In The Product.

15% Or Less	100% Speed
20% Or Less	75% Speed
30% Or Less	50% Speed
50% Or Less	25% Speed
85% Or Less	16% Speed

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



CAPACITY CHARTS FOR FINE MATERIAL SCREW WASHERS

n Single

Screw (Diameter x Length)	Capacity STPH	Max USGPM For Retaining Down To:			100% Screw RPM	HP 1800 RPM
		100	150	200		
20" x 25'	35	503	329	185	38	5
24" x 25'	50	652	427	240	32	10
30" x 25'	80	789	516	290	26	15
36" x 25'	105	912	597	336	21	15
36" x 27'	105	912	597	336	21	15
44" x 33'	175	1771	1159	652	17	25
54" x 35'	250	2023	1325	745	14	40*
66" x 36'	400	2274	1489	838	11	60
72" x 42'	475	2660	1741	980	10	75

n Double

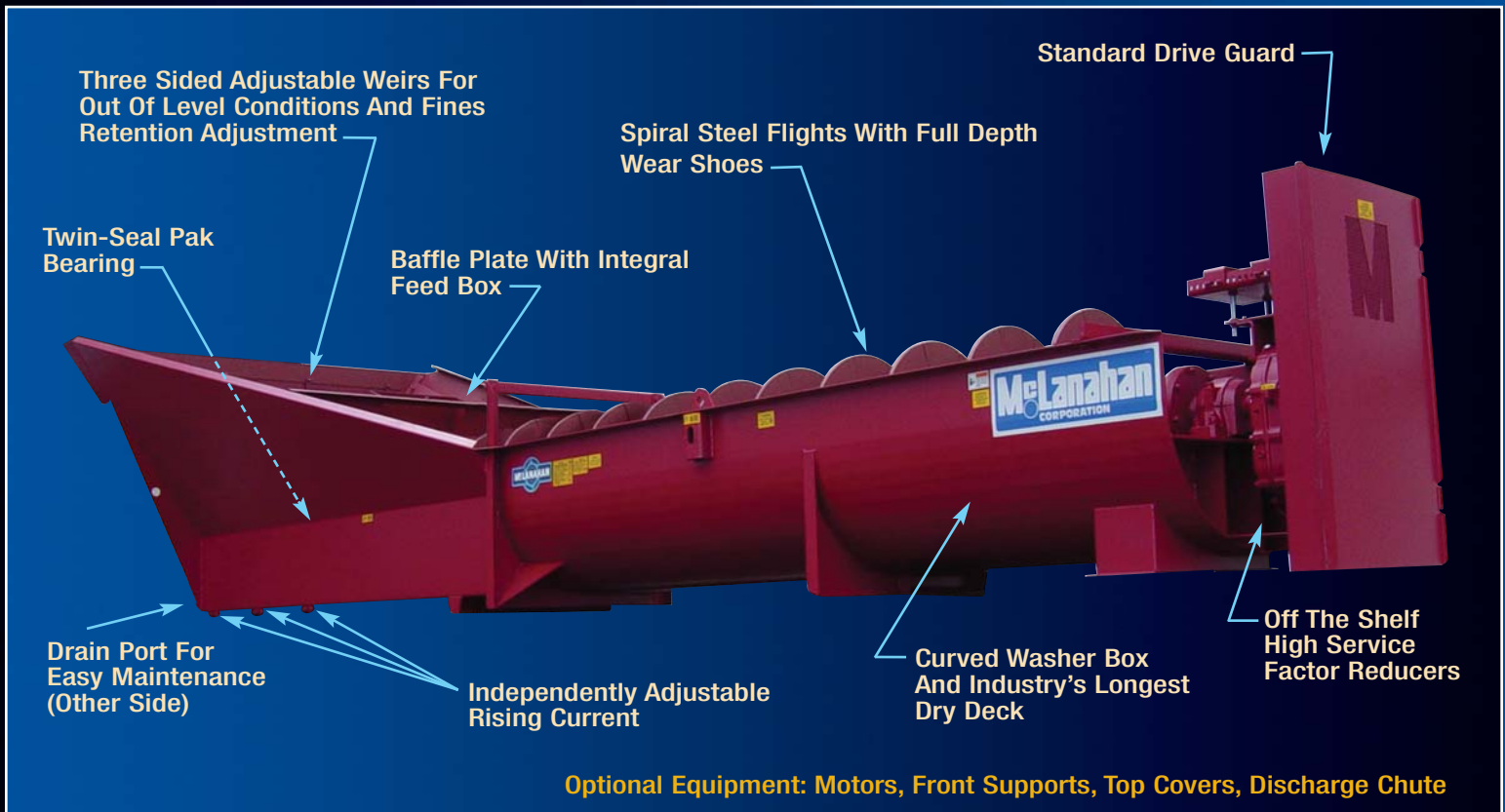
Screw (Diameter x Length)	Capacity STPH	Max USGPM For Retaining Down To:			100% Screw RPM	HP 1800 RPM
		100	150	200		
36" x 25'	210	1374	900	506	21	2-15
36" x 27'	210	1374	900	506	21	2-15
44" x 33'	350	2629	1721	968	17	2-25
54" x 35'	500	3100	2029	1142	14	2-40*
66" x 36'	800	3434	2248	1264	11	2-60
72" x 42'	950	4028	2637	1483	10	2-75

Capacities are based upon - 3/8" x 0" solids weighing 100#/ft³. Water volumes are maximum allowable (USGPM) when maintaining a 1.03 specific gravity. All capacities shown in short tons per hour.

** 54" x 35' Screw Washers require 1200 RPM motors.*

CONCRETE SAND, MASON SAND, BRICK SAND, SLAG, LIMESTONE SAND,

The McLanahan Advantage

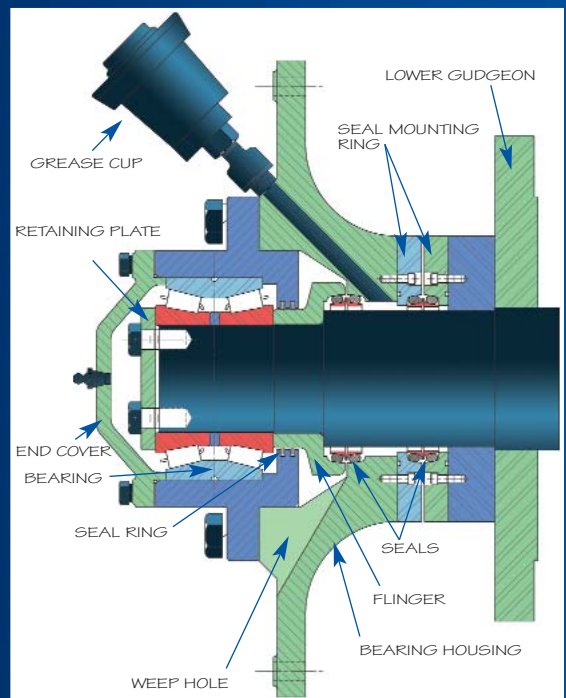


WEAR SHOES

McLanahan provides several types of full depth, contoured wear shoes (including White Iron, Hardmac and Premium Urethane) to fit any application. McLanahan White Iron Shoes, made in our on-site foundry to exacting specifications, are standard on all screws except the 72" model.

SUBMERGED BEARINGS

Changing a "boot" every season? Tired of leaky bearings that lead to catastrophic failure? Then use McLanahan Twin-Seal Pak submerged rear bearings, which are 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. A plunger in the grease cup even lets you know how much grease is in the bearing seal cavity. The roller bearing is mounted outboard, so it can be removed for easy maintenance. Go ten 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.

HIGH WATER VOLUME SCREW WASHERS

Does your application have a lot of water to deal with, but only a small amount of sand? Why buy a big, oversized screw washer just to handle the water? *Now you can select the appropriate size washer box to deal with the water volume and the correct size screw shaft(s) to handle the sand capacity. Mix and match to maximize your buying power.*

ENGINEERING

McLanahan Corporation uses the most modern engineering software to design equipment and systems. By using 2D and 3D AutoCAD for mechanical and electrical drawings, we are able to efficiently customize your equipment to include the design features that are important for your operation.

We can Import / Export the following file types:

- 2D - AutoCAD DWG, DXF, IGES
- 3D - Inventor, SAT, IGES, STEP

McLANAHAN CORPORATION OFFERS THE WIDEST RANGE OF PROCESSING EQUIPMENT AVAILABLE FROM A SINGLE MANUFACTURER

CRUSHING ROCK

- ROLL CRUSHERS
- DDC-SIZERS
- IMPACT FEEDER-BREAKERS

SCRUBBING ROCK

- ROTARY SCRUBBERS
- LOG WASHERS
- COARSE MATERIAL SCREW WASHERS
- AGGREGATE CONDITIONERS

SAND PROCESSING

- RECIPE SAND PLANTS
- IN-LINE RECIPE SAND PLANTS
- SAND-MANAGER® CLASSIFYING TANKS
- MODULAR SAND PLANTS
- SCREW WASHERS
- SAND SEPARATOR SYSTEMS
- DEWATERING SCREENS

CONTAMINATE REMOVAL

- COARSE MATERIAL SCREWS
- JIGS
- LITES-OUT™
- LIBERATORS

FINES RECOVERY

- SEPARATOR SYSTEMS
- UFR PLANTS

Please contact the McLanahan Sales Department for the drawing of the Fine Material Screw Washer needed for your installation.

McLanahan

CORPORATION

We Invite Your Inquiries.

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