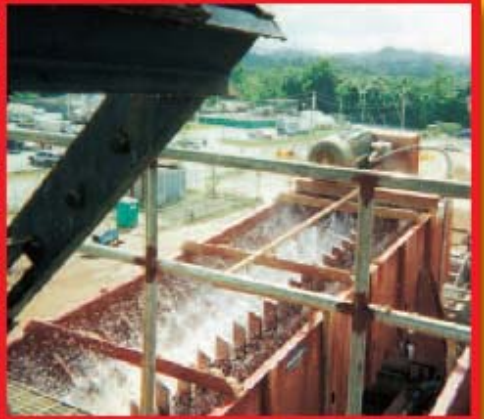


Log Washers



 **McLanahan**[®]
AGGREGATE PROCESSING

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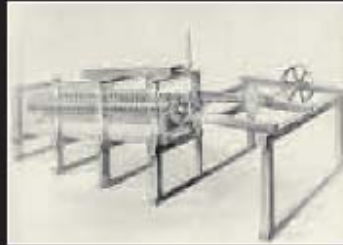
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**THE ORIGINAL
INVENTOR,
SAMUEL C.
McLANAHAN**

Around 1890, this second generation McLanahan conceived an idea to wash clay from the rock in his Florida phosphate deposits. Inside a long box, he mounted wooden logs and attached cast iron paddles to them. On January 27, 1891, he secured a patent for his new machine and called it the Log Washer.

From that day on, McLanahan employees have continually updated his design to include the most modern technology and design features available. What you see in this brochure today is the most advanced and innovative Log Washer used and trusted around the world.



GO FROM THIS

TO THIS



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LOG WASHER SELECTION & OPERATION

Eliminate out of spec products contaminated with clay, silts and other deleterious materials by using the McLanahan Mudmaster and Super Mudmaster Log Washers. Used around the world for washing gravel, cemented aggregates, limestone, phosphate and various ores, McLanahan Log Washers have set the standard by which all others are measured. These high quality, highly durable machines perform well under the toughest clay conditions with minimum power, water and downtime.

Feed material is normally delivered between two to four feet from the feed end of the box and is subjected to an aggressive washing action resulting from the intermeshing paddle design. The paddles perform two functions: they help convey material and are the catalyst to material on material scrubbing. The clean material works uphill, between the shafts, and is discharged out the bottom of the box after a final rinse from the spray bar. Deleterious materials are absorbed into the water and carried over a weir on either side of the box. A rising current system helps lift waste fractions to the top of the water level and over the weir. The length of the washer box is dependent upon the percentage and tenacity of clay or the waste to be removed.

Log Washers can effectively remove up to roughly 15% clay and deleterious materials in the feed. In order to maximize the scrubbing action, we recommend that the minus 1/4" fines, which tend to act as a cushion, be screened out prior to the Log Washer.

CAPACITY			Max Feed Size	Water Requirement GPM	Avg. HP 1800 RPM
Size (Diameter x Length)	Round Or Natural	Crushed Or Angular			
36"x 25'	80-110	65-90	4" Cubed	75-150 @ 75 psig	60-75
36"x 30'	80-110	65-90		75-100	
38"x 25'	90-125	75-100	4" Cubed	100-200 @ 75 psig	75-100
38"x 30'	90-125	75-100		100-125	
38"x 35'	90-125	75-100			125-150
46"x 30'	140-175	115-140	6" Cubed	200-300 @ 75 psig	150-200
46"x 35'	140-175	115-140		150-200	

Capacity varies with slope of machine along with percent and tenacity of clay to be removed. Consult McLanahan Corporation for proper equipment selection. All capacities shown in short tons per hour.

LOG SHAFTS



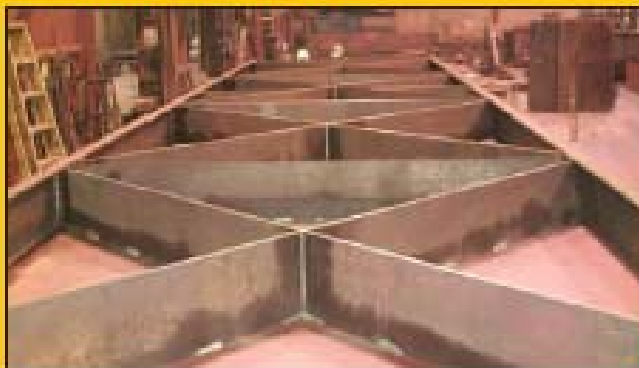
The correct log and paddle design, which we developed through years of experience, is fundamental to cleaning large tonnages with less power and less water. The McLanahan log shafts are designed to be highly resistant to twisting, bending, misalignment and other damage.

The logs are fabricated from extra heavy one-piece steel pipe which is flanged at both ends to facilitate maintenance. After the paddle bases are welded, the log shafts are straightened to less than .010" run-out at the bearing locations. This straightening process provides for maximum bearing, shaft and gear reducer life.

A wear collar (standard on all McLanahan Log Washers) is utilized at the feed-end flanged connection to protect the hardware from wearing away during operation.



BOX CONSTRUCTION



Each McLanahan Log Washer is fabricated from large sheets of heavy steel plate to minimize welded seams. The bottom of the washer box is reinforced for additional strength and rigidity. The sides of the box are gusseted and braced and the top is flanged to further strengthen the design and provide maximum stability. This eliminates undue vibration and ensures years of trouble-free service.

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The McLanahan Advantage

DRIVES

All McLanahan Log Washers employ a v-belt driven, single input, dual output gear reducer, which can be uncoupled from the log shafts and frame for maintenance. The reducer utilizes helical gearing that incorporates 50% more horsepower capacity than conventional spur gear design reducers. Internal spherical roller bearings have a minimum B10 life exceeding 140,000 hours. Overall, this drive utilizes superior materials to improve the operational performance of McLanahan Log Washers.



SLOPE ADJUSTMENT

Operating slopes vary from 1½" to 3" per foot, depending upon the tenacity of waste to be removed. Log Washers should be run at minimum slope to reduce parts wear, power consumption and maximize capacity. Standard slope adjustment uses a trunnion support at the center bottom of the washer box. For more frequent changes in slope, adjustable support brackets can be furnished at each of the four corners where two screw jacks provide for a quick change.



CLEAN-OUT GATES

Available clean-out gates speed up the process of emptying material from the box for maintenance or end-of-season procedures.

STRAIGHT VERSUS SPIRAL

Go straight to profitable production. We still manufacture Log Washers with both straight and spiral rows of paddles (and have for decades), but we believe that shafts with straight rows of paddles are the most beneficial design for producers because more horsepower is transmitted to scrubbing action. Material must work harder to climb up the slope of the box, thereby increasing the washing action. The spiral action of paddles helps convey material too much, cushioning the washing action.



SPRAY BARS

All McLanahan Log Washers come standard with a center spray bar to provide a final rinse before material is discharged from the box. We always recommend the use of a rinse or wash screen following the Log Washer to ensure that any residual coatings and/or films are removed.



PADDLES

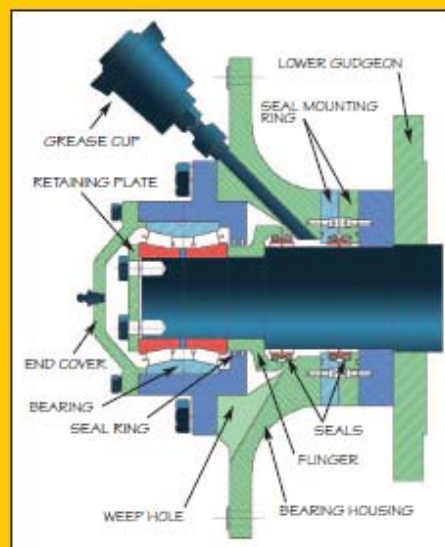
Standard on all McLanahan Log Washers is the McL5X paddle that was designed to optimize the combination of hardness and ductility to maximize abrasion resistance. This specially developed fine grain steel is subjected to a proprietary water quench process that produces a minimum through hardness of 500 Brinell (BHN) while maintaining its tensile strength. McL5X will not break during shipment or crack during installation and the design reduces the coefficient drag during operation. Each McL5X paddle is secured to the paddle base with two bolts, each equipped with two nuts for positive locking.



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.



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McLANAHAN X-TREME LOG WASHER

Need to process 500 TPH of material in just one machine? Use the McLanahan X-Treme Log Washer that incorporates X-tra heavy duty paddle bases, X-tra motor horsepower, X-tra clean out gates and overall lower operating slope. Consult with your local McLanahan Representative or call us direct to see if the X-Treme Log Washer can be used on your application.

OUR ENGINEERING CAPABILITIES

McLanahan Corporation utilizes modern engineering software to design equipment and systems. By using 2D & 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
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Guards are recommended for safe operation of equipment. In some photos, safety guards may not be shown.

LW-2102