

# DEWATERING SCREENS



[mclanahan.com](http://mclanahan.com)



**Over 30 years ago, McLanahan Corporation personnel were the first to introduce Dewatering Screens to the mining industry, where the screens quickly became the standard. Dewatering screens offer multiple advantages for construction and specialty aggregate producers, including a dry “drip-free” product that other types of equipment cannot provide.** With hundreds of units in service, the Dewatering Screen exemplifies the unbeatable toughness you expect from McLanahan Corporation.

Dewatering Screens have several functions:

- Dewatering
- Desliming
- Degritting
- Rinsing
- Scrubbing
- Washing



Dewatering Screens feature custom engineered, heavy-duty screen media for the high capacity applications encountered in today's production conscious market. Side frames and beams are Huck bolted together, not welded, so individual components can be replaced. They also have a combination of standard, wear resistant side wear linings, optional deck dividers, and dams. Performance flexibility is enhanced by variations in screen media and the use of deck dividers.

McLanahan Dewatering Screens have the highest capacities available in the industry and can process up to 400 tph of coarse sand on a single machine. Available sizes are 3' x 8', 4' x 10', 5' x 12', 6' x 12', 7' x 12', and 7' x 16' (.9m x 2.45m, 1.2m x 3m, 1.5m x 3.6m, 1.8m x 3.6m, 2.1m x 3.6m, 2.1m x 4.8m)

## APPLICATIONS

### **Aggregates & Industrial Minerals**

- Cyclone / Separator Underflow
- Hydrosizer Underflow
- Feed To VSI, Dryers Or Other Moisture Sensitive Operations
- Fines Recovery
- Aglime
- Screw Discharge



### **Coal**

- Coal Spiral Products
- Shaking Table Products
- Heavy Media Feed Preparation
- Underground Mine Clean-up

### **Hard Rock Mining**

- CIP / CIL Circuits
  - Trash
  - Loaded Carbon
  - Safety Screens
  - Carbon Quench
- Flotation Tailings







## BENEFITS

- High Capacities Per Foot Width
- Consistent, Drip-Free Product
  - High G Force
  - Upward Inclination Of Deck Helps To Handle
- Fluctuations In Feed Solids
- Reduces Water Losses To Product
- Better Stockpile Management
- Quiet & Low Power Consumption
- Driven By Vibratory Motors
- Low Maintenance

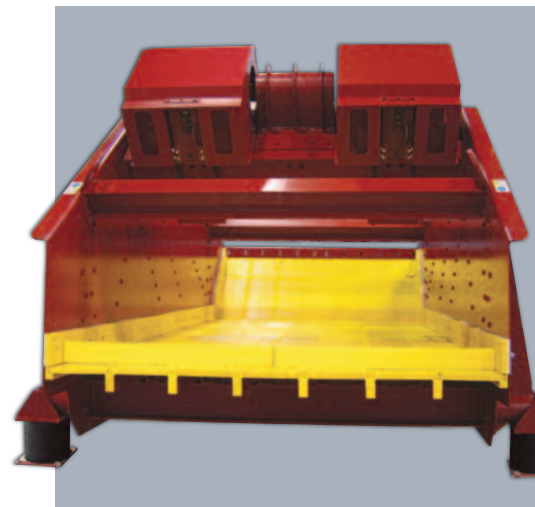
## FEATURES

- High Quality Wear Liners
- Optional Deck Dividers
- Huck Bolt Construction
- Heavy-Duty Urethane Screen Media

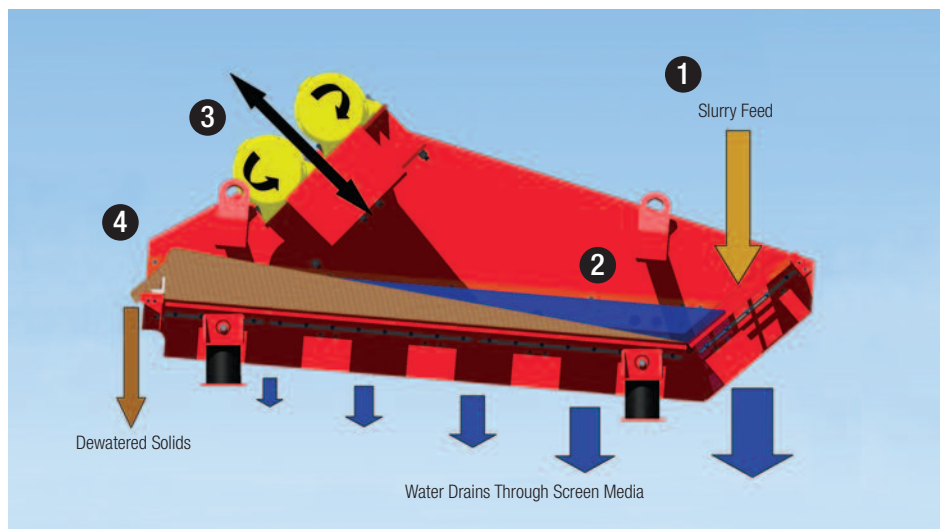
## IMPROVES YOUR BOTTOM LINE

By applying our worldwide industry experience and just the right combination of frequency and amplitude, McLanahan Dewatering Screens provide drip-free discharge for applications that range from primary sand products to ultra fines recovery. The resulting improvements in housekeeping and immediate availability of products mean bottom line benefits!

**McLANAHAN OFFERS PARTS AND SERVICE  
24 HOURS A DAY, EVERY DAY!**







## HOW DEWATERING SCREENS WORK

1. Slurry feeds onto a steeply inclined screen surface to achieve rapid drainage
2. A pool of water forms in the valley as sand builds up on the inclined surface
3. Counter rotating motors create a linear motion that forces solids uphill while water drains through the screen media
4. The uphill slope of the screen along with a discharge weir creates a deep bed that acts as a filter medium, allowing retention of material much finer than the screen openings

## OUR ENGINEERING CAPABILITIES

McLanahan Corporation provides cost effective solutions to issues facing today's sand and aggregate producers, as well as complete plant and equipment designs.

### Process Engineering

McLanahan is unique in its experienced team of qualified Process Engineers who can analyze current plant configurations and provide solutions utilizing the latest technologies available. McLanahan helps you make money by designing commercially viable processes to achieve highest product yields including reducing the amount of saleable material sent to waste. We will reduce inefficiencies (horsepower and manual operations), reduce water usage, eliminate excess equipment, and provide practical answers to deal with environmentally troublesome waste.

### Design Engineering

Using the latest CAD software McLanahan's highly qualified and experienced engineers have a tradition of creating innovative equipment and system designs. Technologies such as vibration and finite element analysis are used to provide our customers with the highest quality products. Having been field tested and trained in process engineering, our engineers can provide better solutions for the industry's problems.

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