



DEWATERING SCREENS

McLanahan Dewatering Screens offer multiple advantages for construction and specialty mineral and aggregate producers, including a dry “drip-free” product that other types of equipment cannot provide. Dewatering Screens have several functions: dewatering, desliming, degritting, rinsing, scrubbing and washing. They feature heavy-duty screen media for high capacity applications. 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.

Reduce Moisture

Surface moisture as low as 8 percent has been experienced with Dewatering Screens; however, final moisture is dependent on surface area, surface morphology, and contact angle. Finer materials, such as those processed in fines recovery systems where the material is 100 percent passing 100 mesh (150µm), will dewater to a drip-free consistency, which conveys and stacks, but may have a surface moisture content of more than 20 percent.

Dewater More Than One Product

McLanahan’s personnel pioneered the use of deck-dividers to allow two or even three products to be dewatered at one time. Producing a fine product on one side and a coarse product on the other with the facility to blend is part of the standard offering from McLanahan. Process Engineers will assist with the application to ensure all factors are considered.

Improve Your Bottom Line

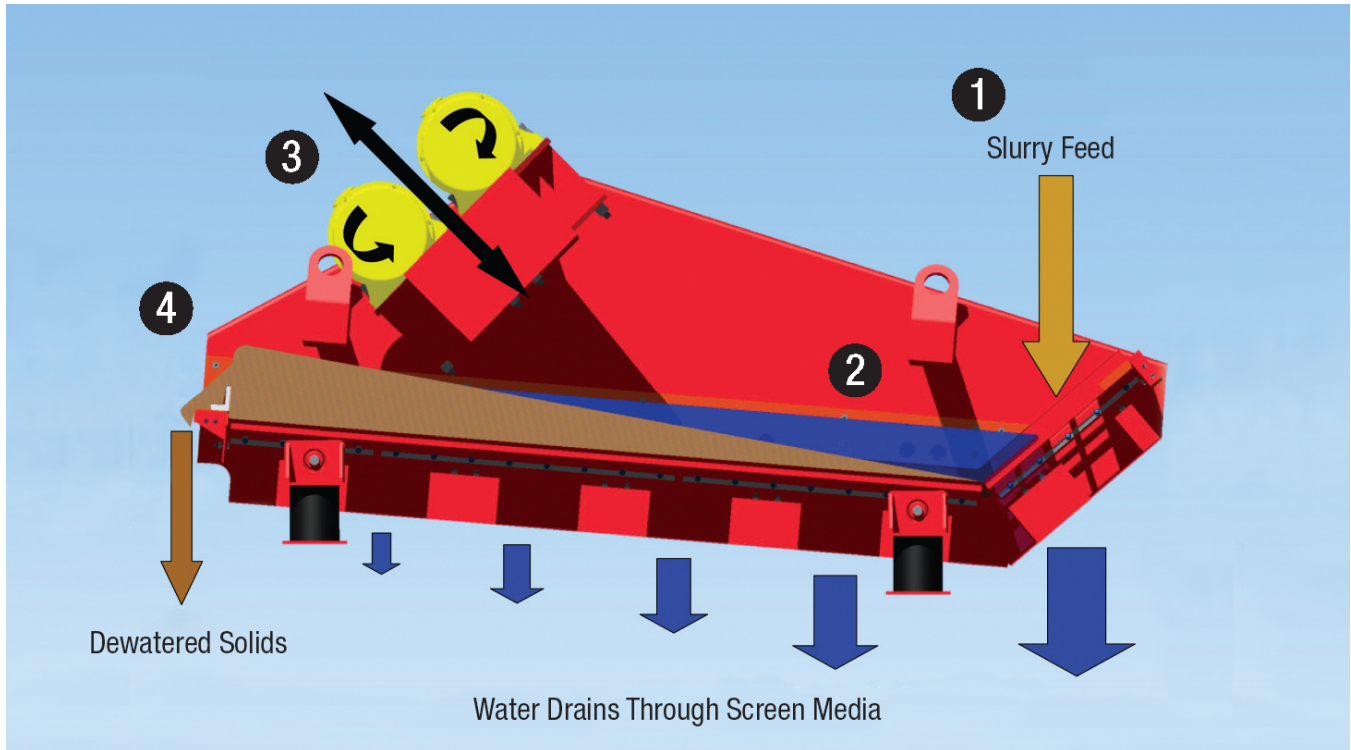
By applying our worldwide industry experience and just the right combination of frequency and amplitude, McLanahan Dewatering Screens provide drip-free discharge for applications that range from primary sand products to ultra fines recovery. These improvements and the immediate availability of products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

FEATURES AND BENEFITS

- High quality wear liners
- Optional deck dividers
- Huck bolt construction
- Heavy-duty urethane screen media
- High capacities per foot width
- Consistent, drip-free product
- Fluctuations in feed solids
- Reduces water losses to product
- Better stockpile management
- Quiet and low power consumption
- Driven by vibratory motors
- Low maintenance

How It Works

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



Dewatering Screen Capacities					
Model	Screen Size	HP	Capacities in Tons Per Hour		
			Concrete/Coarse Sand	Mason/Fine Sand	UFR (-100 μm)
VD-6	2' x 6' (0.6m x 1.83m)	2 x 2	30	25	15
VD-9	3' x 10' (0.9m x 3.0m)	2 x 3	50	40	25
VD-12	4' x 10' (1.2m x 3.0m)	2 x 3.2	100	75	50
VD-15	5' x 12' (1.5m x 3.6m)	2 x 8.5	150	120	80
VD-18	6' x 12' (1.8m x 3.6m)	2 x 8.5	200	165	110
VD-21S	7' x 12' (2.1m x 3.6m)	2 x 8.5	300	225	150
VD-21L	7' x 16' (2.1m x 4.8m)	1 x 30	400	300	200