

ULTRA SAND PLANTS



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McLanahan provides its customers with customized process solutions that not only meet but exceed today's rigorous application requirements. With the most comprehensive wash equipment range in the industry, McLanahan can address your specific application whether it is with Screw Washers, Classifying Tanks, Slurry Pumps, Dewatering Screens, Cyclones or Separators™.

Continuing a long history of process innovation, McLanahan Corporation has pioneered the development of the Ultra Sand Plant. Consisting primarily of a slurry pump, a Separator™ and a Dewatering Screen, the Ultra Sand Plant is an alternative means of processing sand that offers higher yield, improved product consistency, and superior product dryness when compared to conventional wash equipment like fine material screw washers.

BENEFITS

Higher Product Yields

The Ultra Sand Plant provides a 3-5% higher product yield over fine material screw washers due to the greater separation efficiency of Separators™.

Drier Products

The Ultra Sand Plant products contain approximately 50% less water than screw washer products. Lower moisture products allow for more immediate use of product, higher angle of repose for more stockpile capacity, reduced water loss, and better house keeping.

Blending Flexibility

The Ultra Sand Plant can be set up to make both coarse and fine sand products simultaneously. Through the use of another McLanahan first, a gate can be utilized to blend the sands together – allowing for control of the final product's FM (Fineness Modulus).

DESIGN FEATURES

Special Designed High Strength Urethane Screen Media – McLanahan Dewatering Screens have the highest production rates per foot of width in the industry. Our modular urethane screen media is specifically designed to survive the heavy loads generated by high production plants.

Heavy Duty Rubber Lined Slurry Pumps

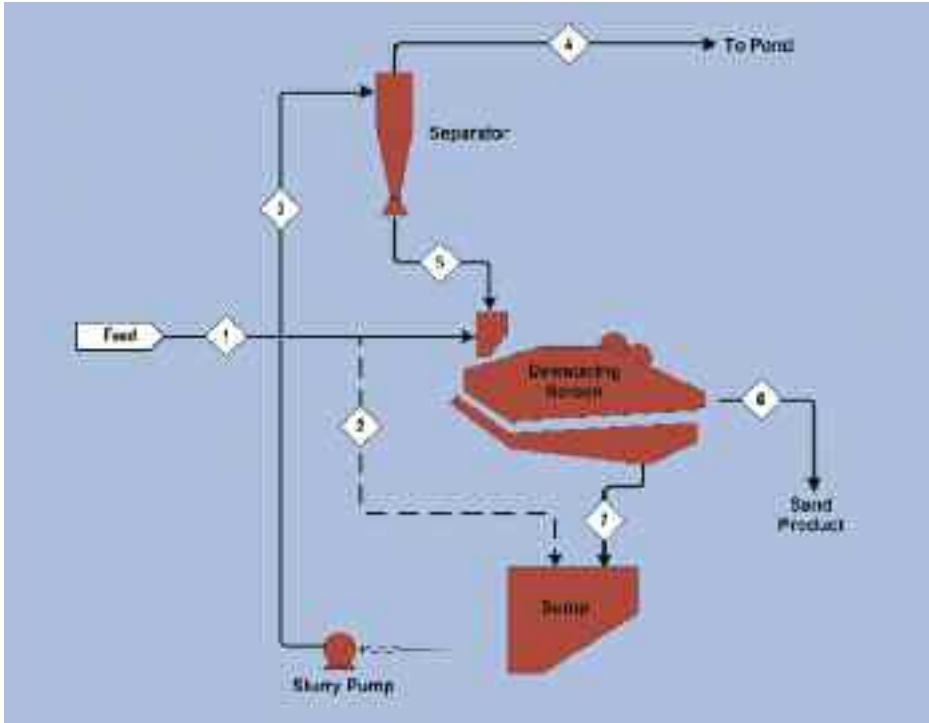
Designed for pumping sand slurries, the McLanahan Horizontal Centrifugal Slurry Pump is supplied with molded rubber impellers and casing liners.

Dewatering Screen

The McLanahan Dewatering Screen combines the right G force and amplitude to provide the best product dewatering. McLanahan has designed its Dewatering Screen to withstand high loads and provide maximum wear life.

Separator™

The McLanahan Separator™ is critical to the successful operation of the Ultra Sand Plant. This rubber lined vacuum assisted cyclone separates valuable solids from undesirable fine sand, silts, and clays.



SAFER. SIMPLER. SMARTER.

How Ultra Sand Plants Work

1. Feed to the system typically comes through the wash screen's bottom deck directly to the Dewatering Screen. The screen media effectively allows the water and fine sand to pass through the deck.
2. In certain cases where the feed is very dilute or contains a high concentration of -200 mesh solids it will be directed to the collection sump first.
3. Slurry in the sump is pumped to a Separator™ to remove the -200 mesh solids and water.
4. Water and fine silts and clays report to the slurry pond or other down stream processes such as an Ultra Fines Recovery System or Thickener.
5. Deslimed and partially dewatered solids are discharged onto the Dewatering Screen.
6. The Dewatering Screen removes excess moisture in the sand and discharges a “drip free” product.
7. Water and fines that pass through the Dewatering Screen report to the sump and are recirculated through the system, minimizing losses of sand size product.

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

Offering The Widest Range Of Processing Equipment Available From A Single Manufacturer

Wet Processing

Aggregate Conditioners
Attrition Scrubbers/Cells
Coarse Material Screw Washers
Dewatering Screens
Flat Bottom Classifiers
Filter Presses
Fine Material Screw Washers
Cyclones
Hydrosizers
Log Washers
Pumps
Road Based Mixers
Rotary Scrubbers
Rotary Trommel Screens
Sand Manager Classifying Tanks
Separators™
Frac Sand Plants
In-Line Blending Plants
Recipe Sand Plants
Fines Recovery Systems
Sand Plants
Thickeners

Dry Processing

Cone Crushers
Feeders
Drag Chain Feeders
& Feeder-Breakers
Hammermill Crushers
Impact Crushers
Jaw Crushers
Rocker Tooth Crushers
Lab Mill Crushers
Rotary Sample Dividers
PugMill Mixers
Roll Crushers
Rotary Breakers
Rotary Trommel Screens
Screens
Sizers
Stage Loader Crushers
Crushing Plants

Sampling

Barge Auger Systems
Cross Belt Sampling
Cut Zone Systems
Falling Stream Sampling
Multiple Stage Sampling Systems
Rail Auger Systems
Single Stage Sampling
Truck Auger Systems

Wear Parts



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