

Dewater Sludge and Slurry by Renting Sebright's Belt Filter Press



PERFORMANCE AND HIGH VALUE IN A COMPACT MOBIL PACKAGE

The Belt Filter Press from Bright Technologies, a division of Sebright Products, is a modern design with many innovative features – and you don't even have to purchase it to take advantage of this incredible machine.

The machine uses filter belts and mechanical pressure to dewater sludge, slurries, and food by-products. Dewatering wastewater sludge or industrial slurries are among its most common applications.

Our rental fleet is well kept, consisting of machines that can pump up to 300 gallons a minute. Complete with a trailer-mounted system, they are easily mobilized – meaning greater ease in set up and less work for the operator. The machine is pre-engineered for reliable operation, which is controlled by fully integrated components, rendering it easy to use. It's a great choice for contract dewatering projects.

The Belt Filter Press's effectiveness comes from three unique process sections: the gravity section, radius wedge section, and the 8-roll pressure section. The sludge or slurry first enters the gravity section, where a chemical flocculent or polymer, which has been added into the slurry near the sludge pump before the onboard flocculation manifold and promotes the release water and gravity drainage. The material is then spread, and contained, across the usable area of the gravity deck on the filter belt. Plows or chicanes then move the solids and promote drainage. Unlike most competitors, the gravity section is inclined, which promotes better dewatering by keeping the water-laden sludge back by the feed box and carrying the solids up to the discharge only after the majority of water has drained. The gravity deck is also supported by UHMW plastic bars, which make continuous contact with the filter belt, breaking the surface tension of the water and promotes rapid drainage – this is what drives the machine's higher production rates.

In the radius wedge section, the upper and lower filter belts converge and envelop the solids. This patented radius wedge design applies early pressure on solids, prior to the drainage roll, which generates superior conditioning prior to entry into the pressure section. No operator adjustment is necessary during this process.

Within the pressure zone, the filter belts are wrapped around stainless steel rollers that progress from a large diameter to smaller. The descending roll profile increases the pressure on the solids as the roll diameter decreases. The first pressure roll, which is patented, is called a wing roll and features a 50% open area and a convex inner surface that channels the liquid to outside of the roll so that it drops beyond the filter belt without rewetting it. The rolls feature a triple-stub plate design and are constructed of stainless steel so no roll coatings are required.

Unlike other rental options out there, contractors or municipalities can rent this belt filter press direct from its manufacturer. We stand behind these superior machines, that you'll certainly find more efficient, better built, more dependable and with higher production rates and cost savings compared to other sludge dewatering options on the market.

We offer both long- and short-term rental periods, and even the option to rent to own. Many companies, contractors or municipalities wind up purchasing after renting and trying out the belt filter press. Some companies even rent it and discover they want to purchase the machine as an extension of their business and services. Other competitors solely rent out the components of the press, while we offer the full system. There is no need to rent add-ons with our belt filter press.

Learn more about the belt filter press by visiting sebrightproducts.com or contact Operations & Process Specialist **Tom Stebbins** at **920-763-4057** or email at tstebbins@brightbeltpress.com.



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