

# BELT FILTER PRESS

## FOR SUPERIOR RESULTS\*

WWTP Primary - Cake solids of up to 37% TDS

Aerobic Digested - Cake Solids of up to 24% TDS

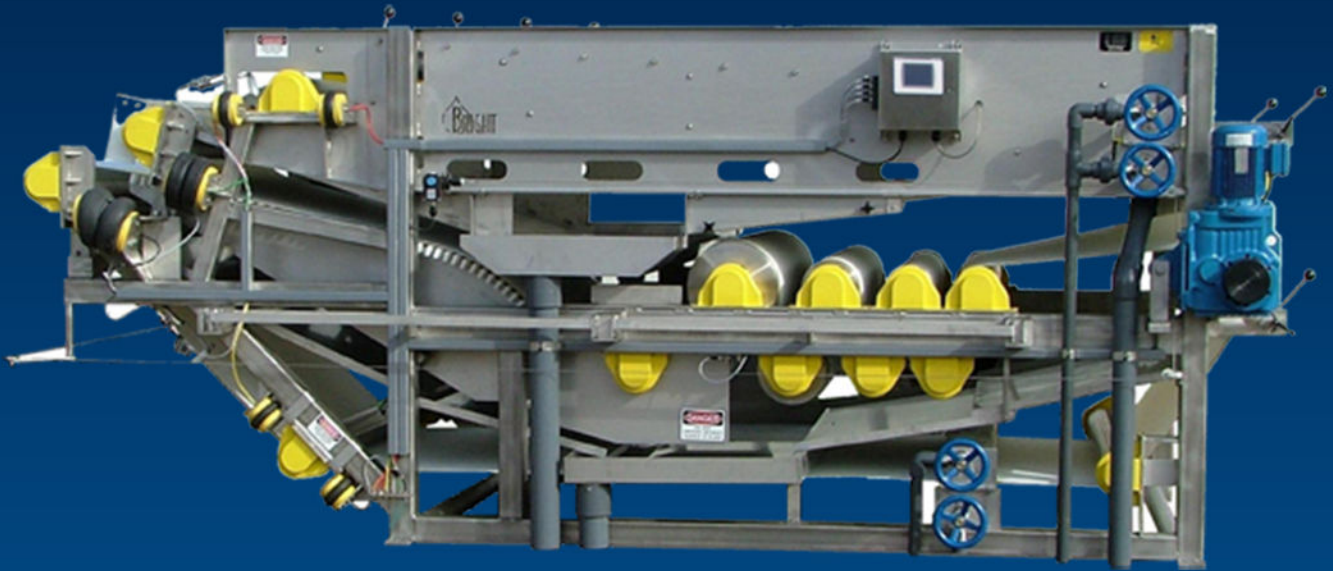
ATAD Process - Cake solids up to 30% TDS @ 2,000 lbs./hr/meter

Lagoon Sludge - Solids loading of 2500 lbs./hr/meter producing 20% TDS

Mineral Sludge - Cake solids of 50 -70% TDS at rates of 6,000 lbs./hr/meter

Lime Treated Septage - Cake solids up to 47% TDS @ 1,400 lbs./hr/meter

\*While the above results have been attained with our belt filter press equipment, results may vary with the characteristics of the sludge and other process variables.



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# BELT FILTER PRESS

## Bright Technologies Belt Filter Press

A modern design that includes (3) US Patents and many innovative features that provide high performance in a compact, high value package. Many competing products are based on 30 year old designs that do not utilize the filtration area effectively.

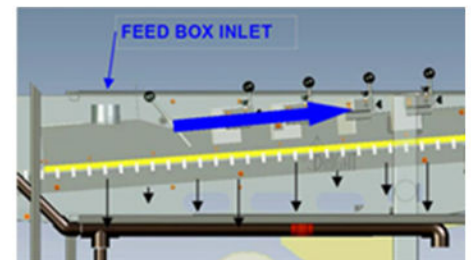


### Features

- Stainless Steel Construction
- Inclined Gravity Section
- Patented Radius Wedge Section
- High Pressure Zone
- Patented Belt Tensioning and Steering
- Patented Drainage Roller
- State of the Art Controls

### Gravity Section

The Inclined Gravity Deck features 1/2" UHMW support bars on 2 1/2" centers designed to maximize drainage by breaking the surface tension and the use of capillary action. The moving belts, in contact with the support bars, break the surface tension allowing the water to flow through the pores in the belt. As the water travels through the belt, it creates a vacuum effect on the top side of the belt, pulling in more water. This principle can be illustrated by touching the inside of a wet tent and causing it to leak. The incline of our gravity deck keeps liquids near our feed box and conveys solids out to increase zone retention time. These features make our gravity deck more effective per given unit of the belt area



### Radius Wedge

Our patented radius wedge section simulates a large diameter roll, which quickly brings the belts together to apply gentle pressure and better condition the sludge for the press section. The typical straight wedge zone used by others, usually requires operator adjustment and does not apply any pressure over most of its surface area. Our radius design, also supports superior drainage by breaking lower belt surface tension with our radius support grid and does not require additional user adjustments.



### Drainage Roller

Our patented drainage roller is a large diameter fabricated roll that features 50% open area drainage. Unlike perforated rolls, which are typically 30-35% open area, our patented Wing Roll channels water to the outside of the roll and the roll rotates upward and washes the majority of any solids present out of the roll, so they do not impede drainage in subsequent operation. The Wing Roll is also easy to clean at the end of the day's operation, unlike perforated rolls, which stubbornly retain solids buildup inside the roll leading to diminished dewatering capacity and odors.