

BELT FILTER PRESS



Belt Filter Press is a Continuous sludge dewatering device which uses chemical conditioning, gravity drainage and mechanically applied pressure to dewater sludge.

First, the conditioned sludge is introduced through a hopper to gravity drainage section where thickening takes place through the drainage of free water through the belt. Suspended solids concentration increases in this section. Following this sludge is subjected to gradual in-creasing pressure by squeezing opposing belt fabric. The belts are held in place by series of rollers that subjects the sludge to shearing forces as belt pass through a series of rollers that define a serpentine path. These forces thus introduced, release additional quantities of water from sludge increasing the solid content further. a continuous water spray keeps the pores of belt get plugged. The sludge cake is out at the outlet end.

It works with almost every type of sludge including primary biological from anaerobic and aerobic processes after some chemical conditioning.

Sizes varies from 0.5 meter to 2.5 meter of belt with capacities of 10m³/m. Through the output also depend on the characteristics of the sludge.

Our BFPs works with sludge of 0.5% to 2.0% DS.

The output sludge is of 22% to 30% DS.

