Our Experience

- 20 years of manufacturing experience in the water and wastewater treatment industry.
- Nearly 1,000 belt filter presses installed.
- Nearly 100 belt filter presses installed with belt widths of 2 meters and wider.
- Installations in 19 countries.
Types of Sludges

- Aerobically digested municipal sludges.
- Lime sludges from water plants.
- Fruit/wine and food processing.
- Meat, poultry and tannery applications.
- Pulp and paper processing.
- Pharmaceutical and chemical sludges.
General Arrangement
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Indah Kiat Plant
Belt Press - Major Points

• Meets or exceeds the specifications.
• Provide separate speed controls for the gravity dewatering section and for the belt filter press.
• Provide a shorter belt filter cloth length with stronger frame to allow higher cloth tension on the rolls.
• Warrant the belt filter cloth for 6,000 hours.
• Large and long cloth area for predewatering.
Design Features

- Heavy duty carbon steel structural frame.
- Pressing rolls designed for linear tension of 8 kg/linear cm.
- Filter belts are woven, continuous loop.
- Independent variable speed belt drive system.
- Separate drive control for gravity table.
- Pneumatic belt tensioning and alignment systems.
Design Features

- Belt washing system made of stainless steel designed to prevent aerosol problems.
- Belt wash water collected separately.
- Machine-mounted waterproof electric junction box for power cables and control signals.
- Machine-mounted waterproof pneumatic control system including reduction filters and manometers.
Motorized Mixer

Mixes sludge and polymer.
Gravity dewatering table

Pre-dewaters incoming sludge.
Sludge Distribution Box

Equipped with adjustable blade, this device distributes sludge uniformly over the entire belt width to improve efficiency and capacity.
Wedge Zone

Pressure increased on sludge layer to remove excess water before entering pressure roll section.
Pressure Roll Zone

Sludge is dewatered as pressure is increased while belts wind around rolls.
Cake Breakaway Zone

Dewatered cake detaches from the belt while the two scraping doctor blades complete the cake removal.
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