

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.

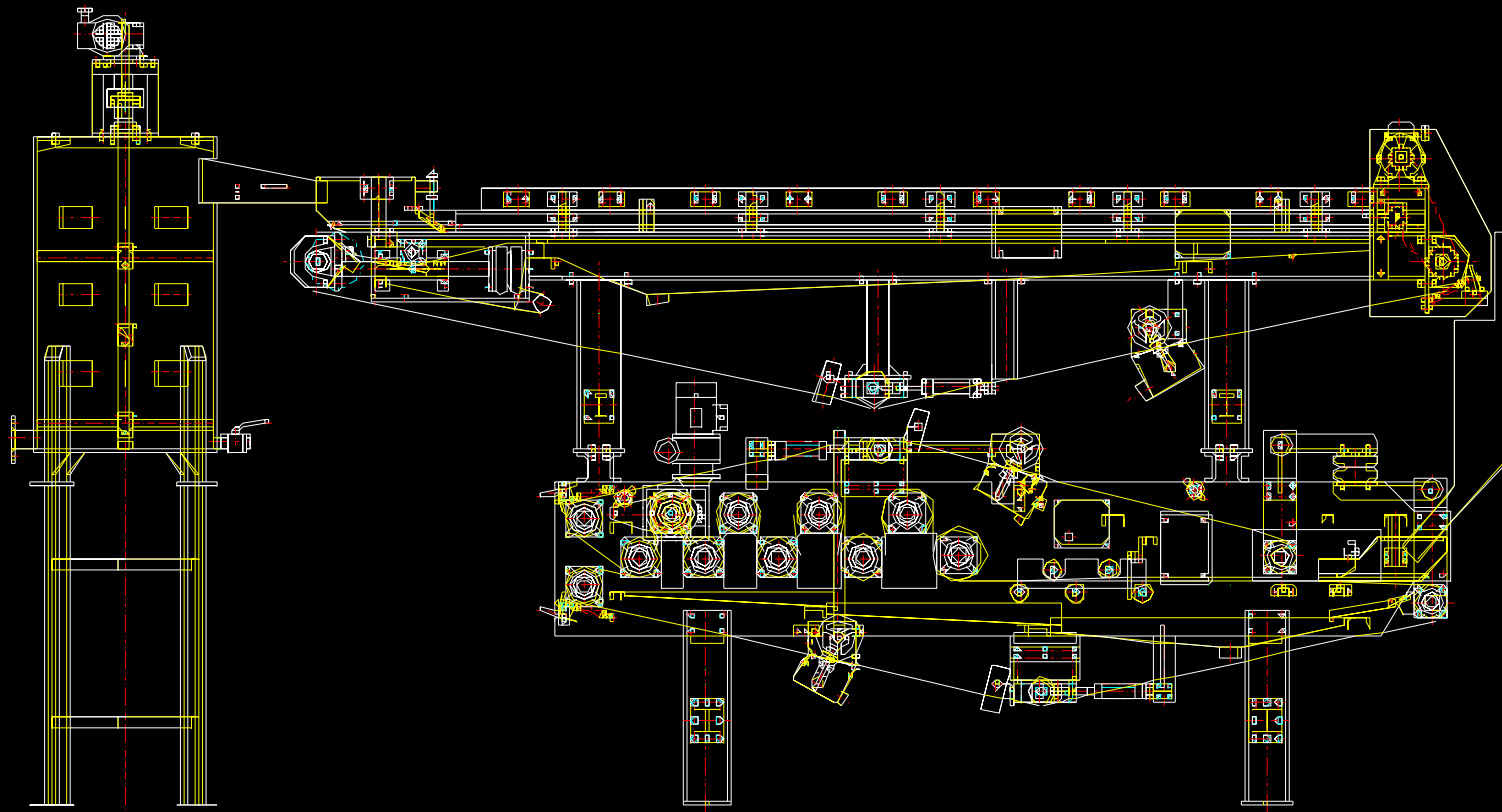
Types of Sludges



- 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.

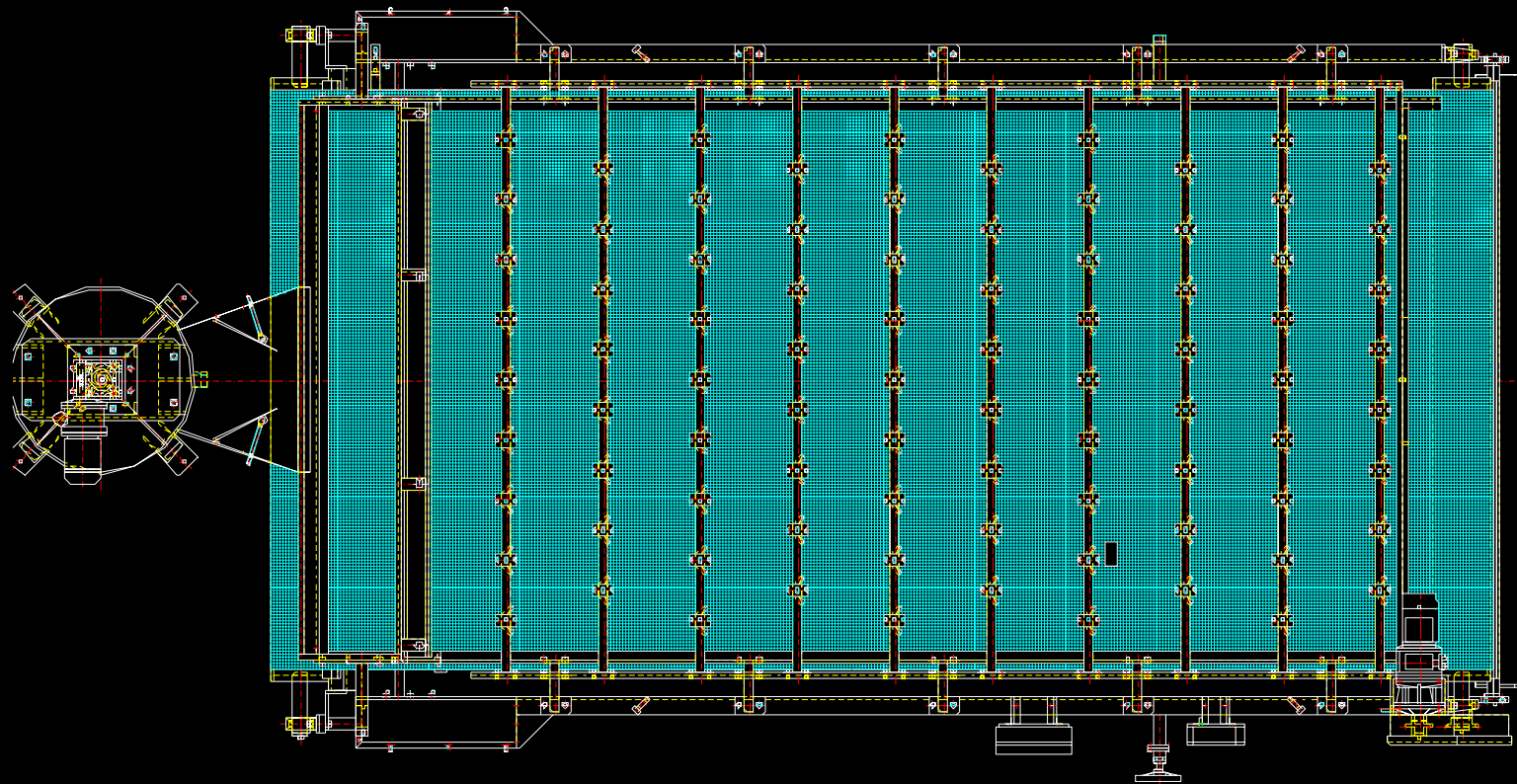
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General Arrangement



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General Arrangement



Indah Kiat Plant

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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

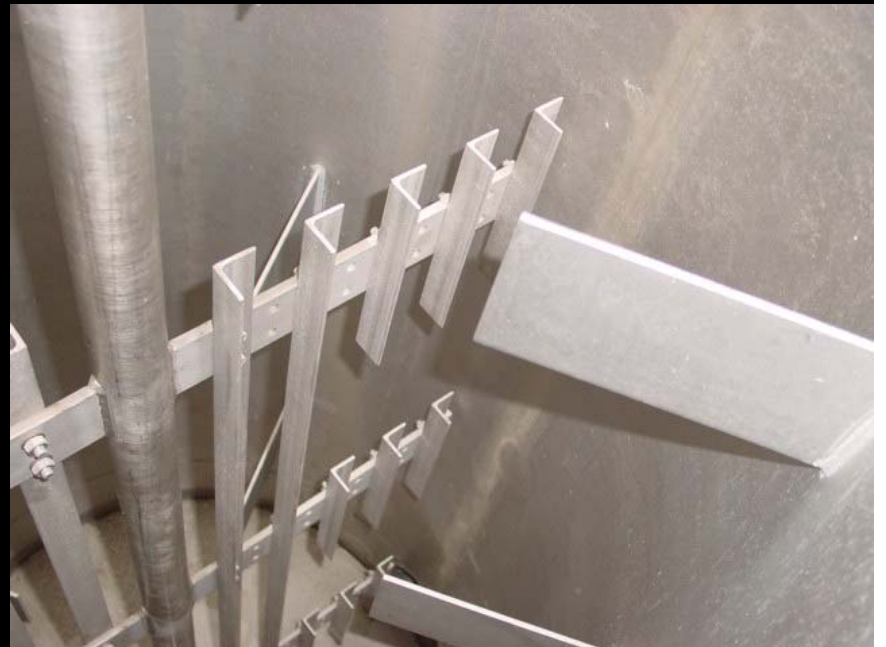
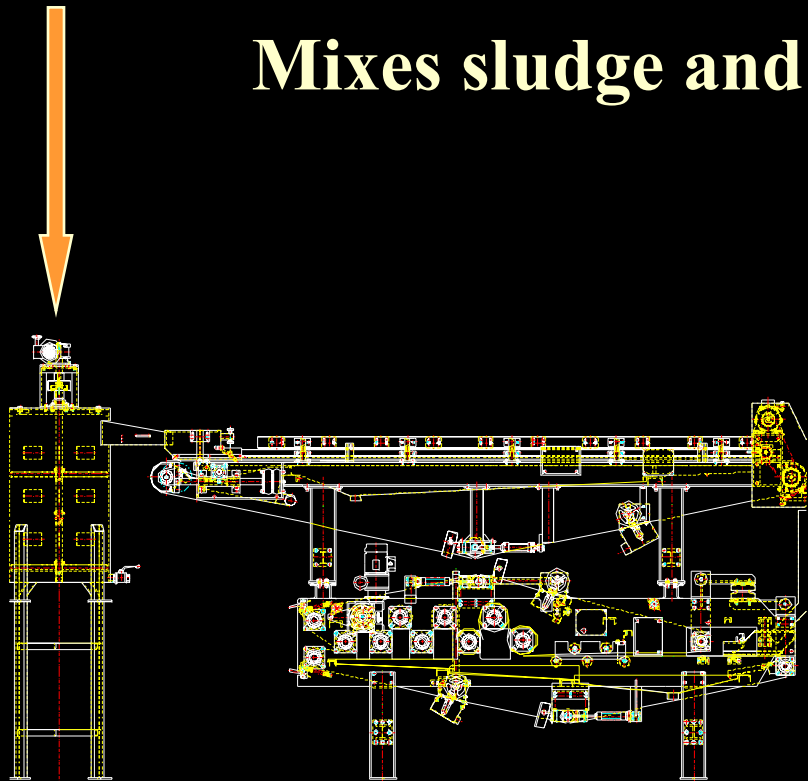


- Belt washing system made of stainless steel designed to prevent aerosol problems.
- Belt wash water collected separately.
- Machine-mounted waterproof electric junction box for power cables and control signals.
- Machine-mounted waterproof pneumatic control system including reduction filters and manometers.

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Motorized Mixer

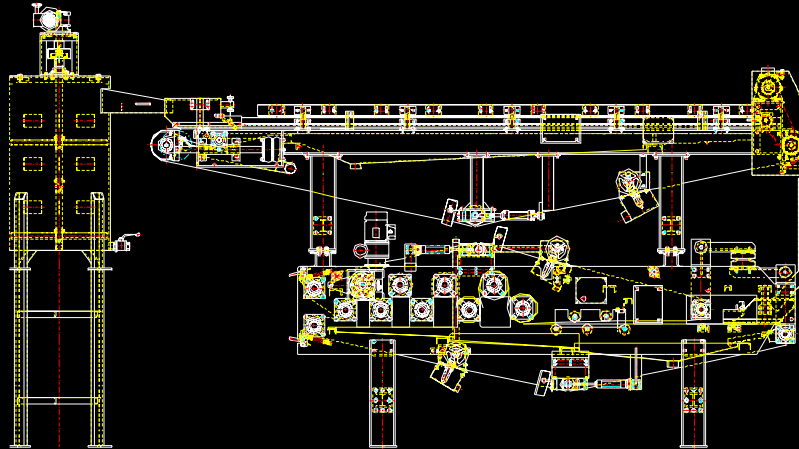
Mixes sludge and polymer.



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Gravity dewatering table

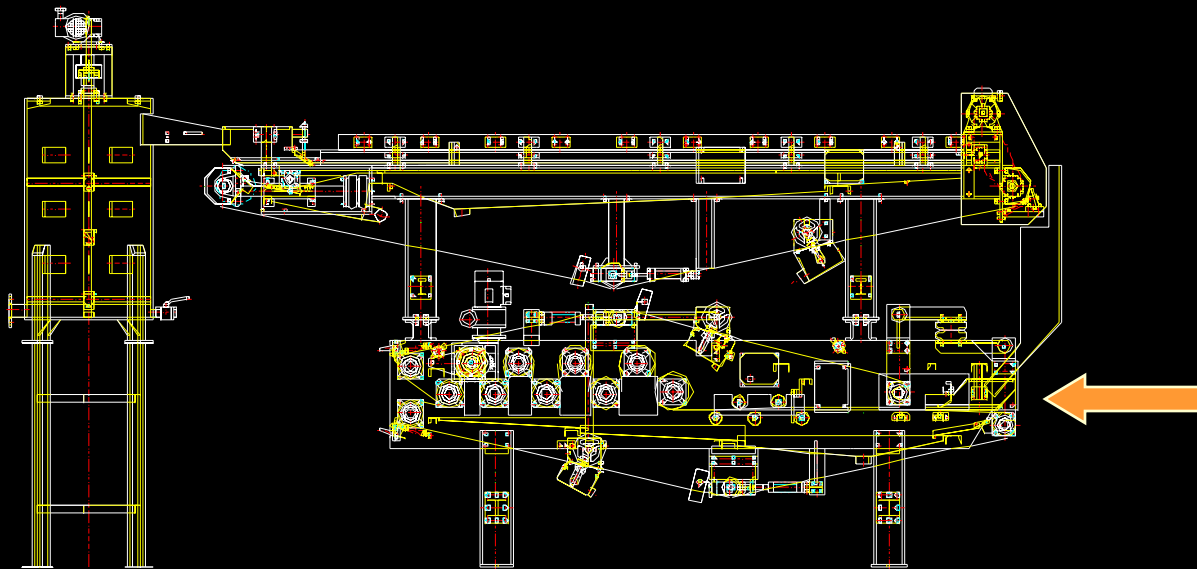
Pre-dewaters incoming sludge.



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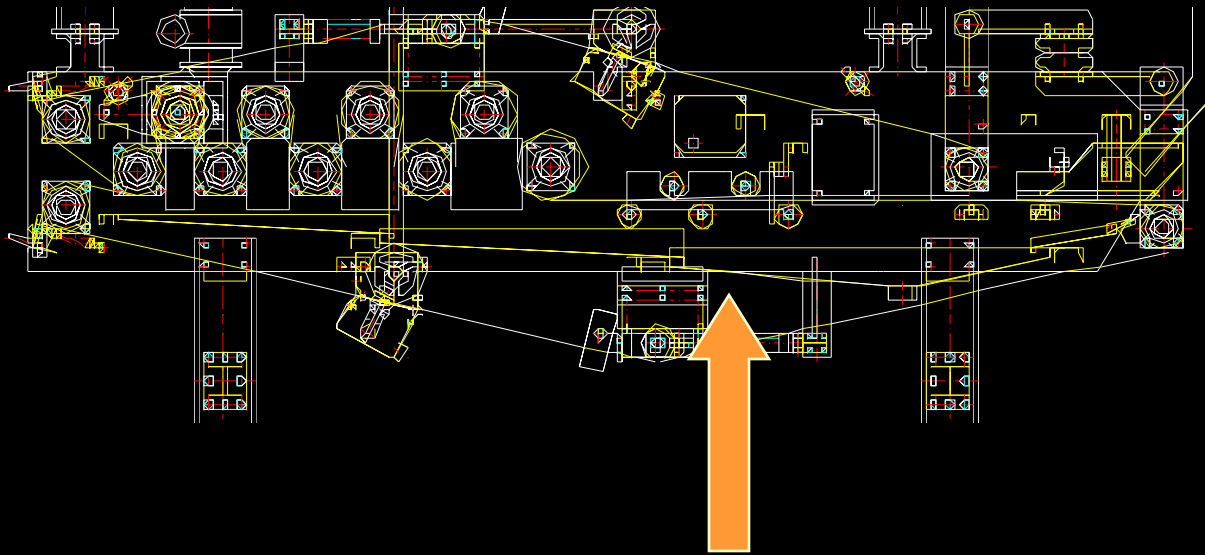
Sludge Distribution Box

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



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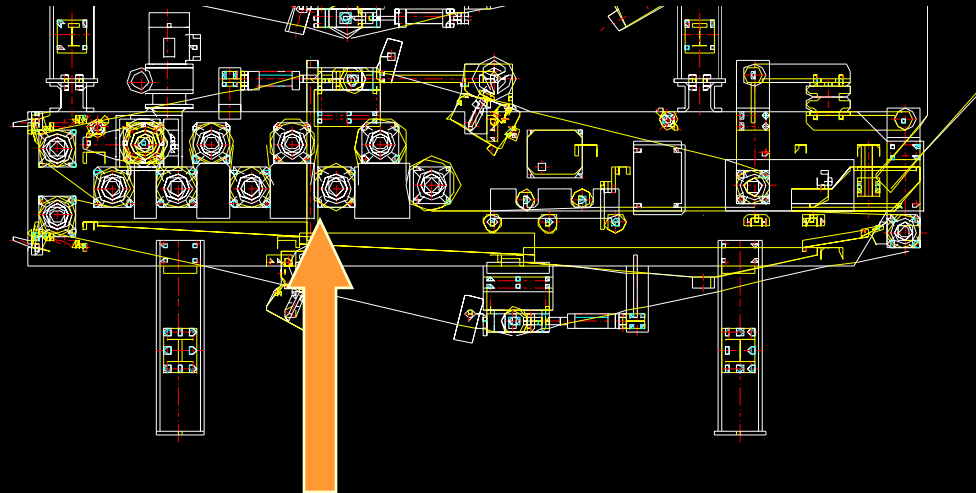
Wedge Zone



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

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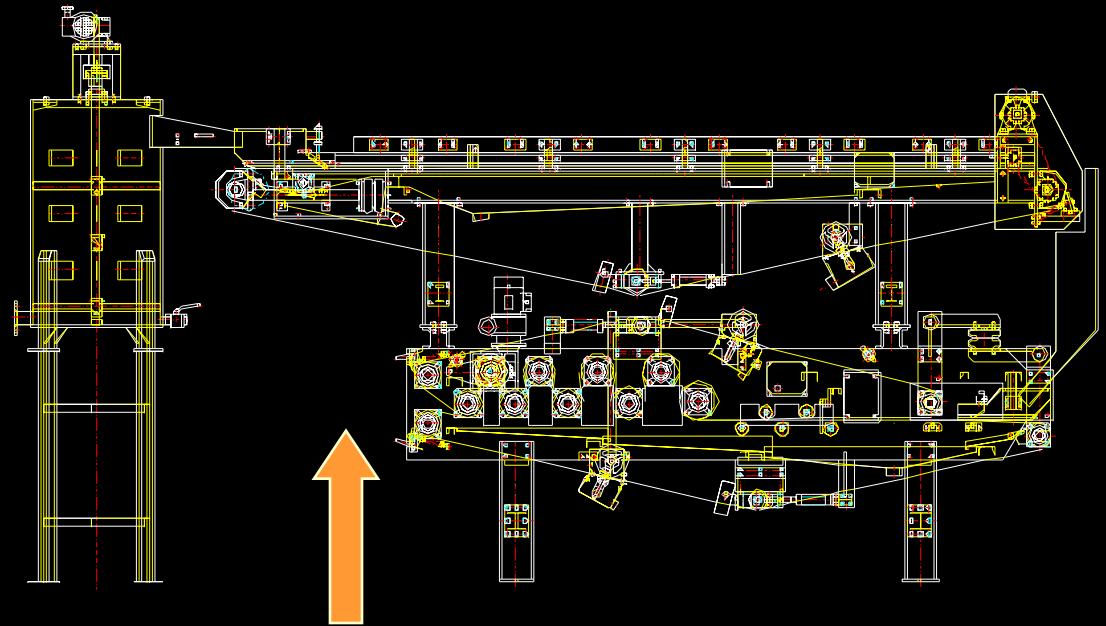
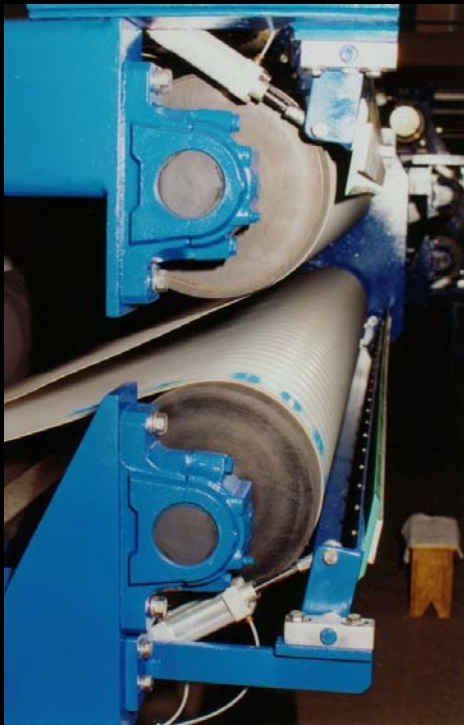
Pressure Roll Zone



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

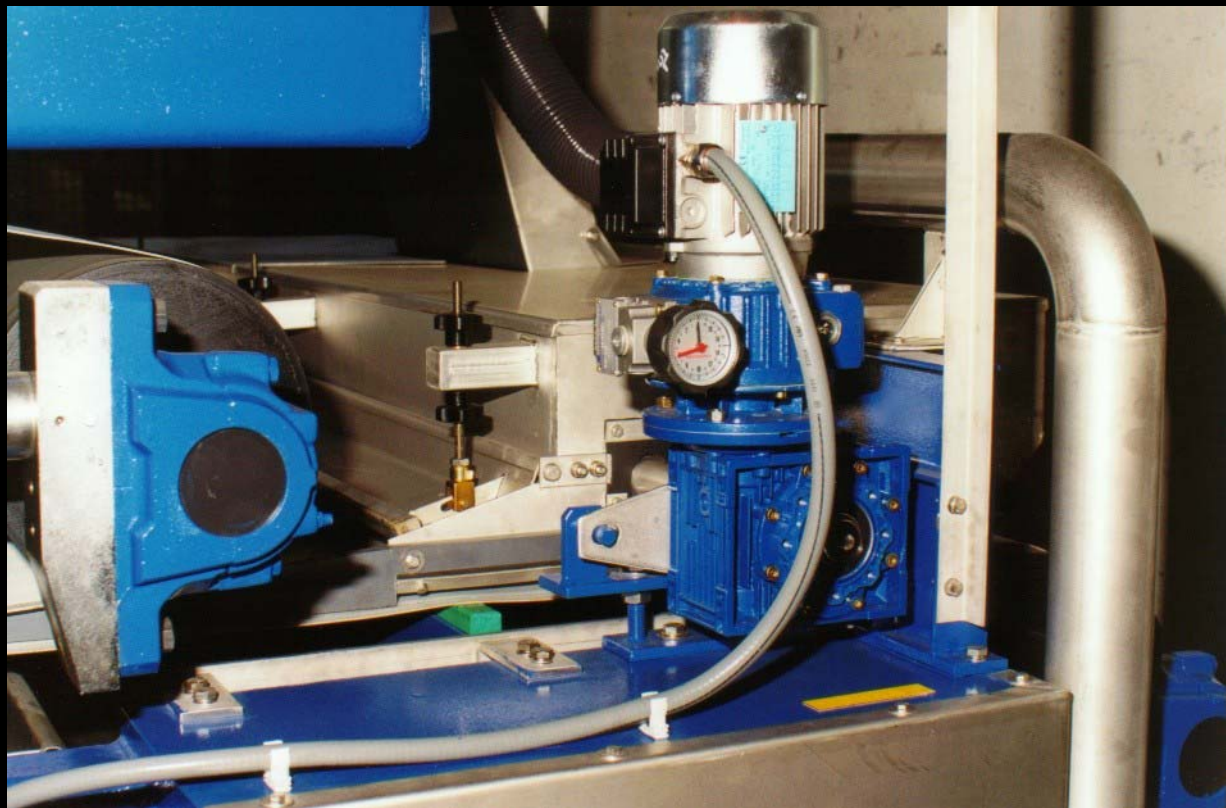
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Cake Breakaway Zone



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

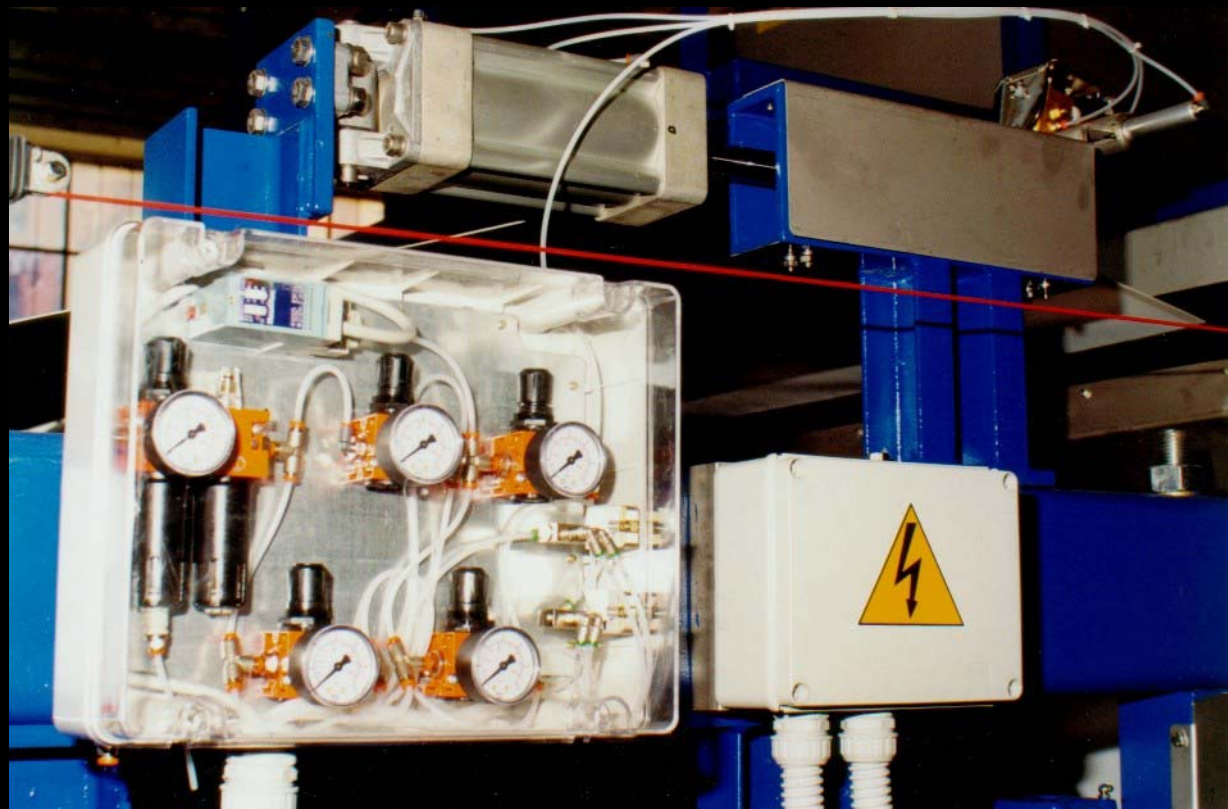
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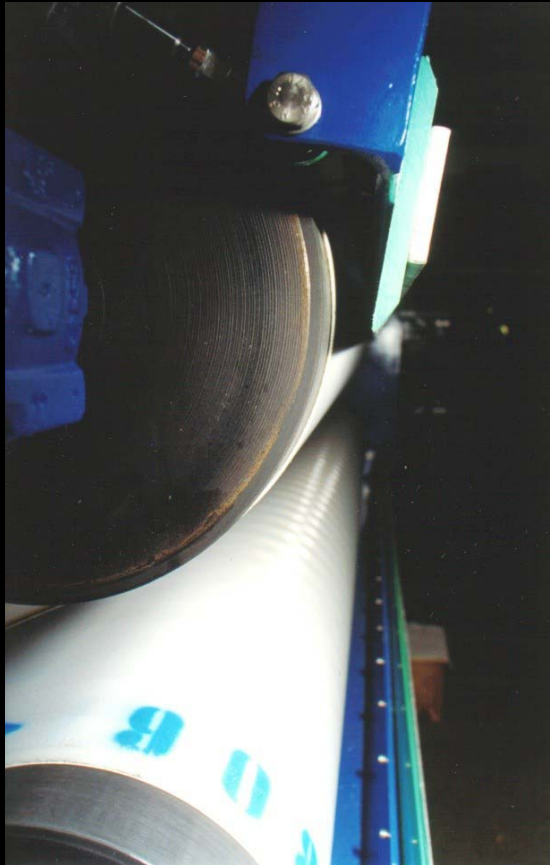
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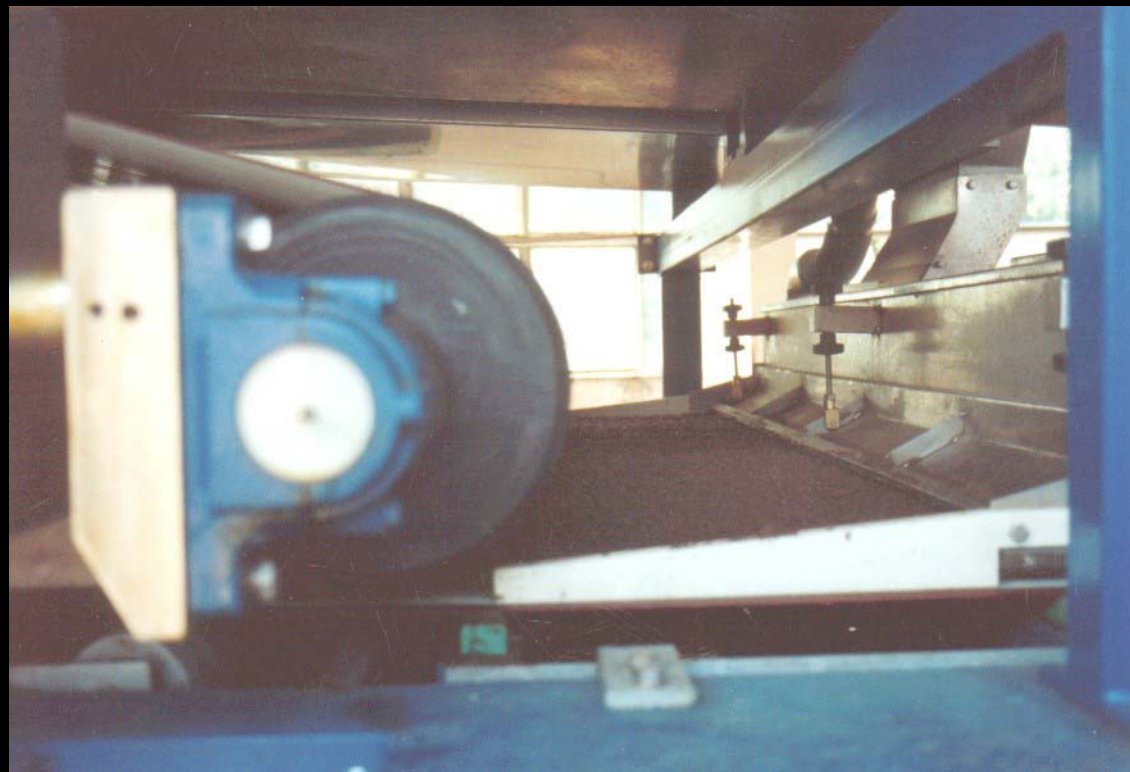
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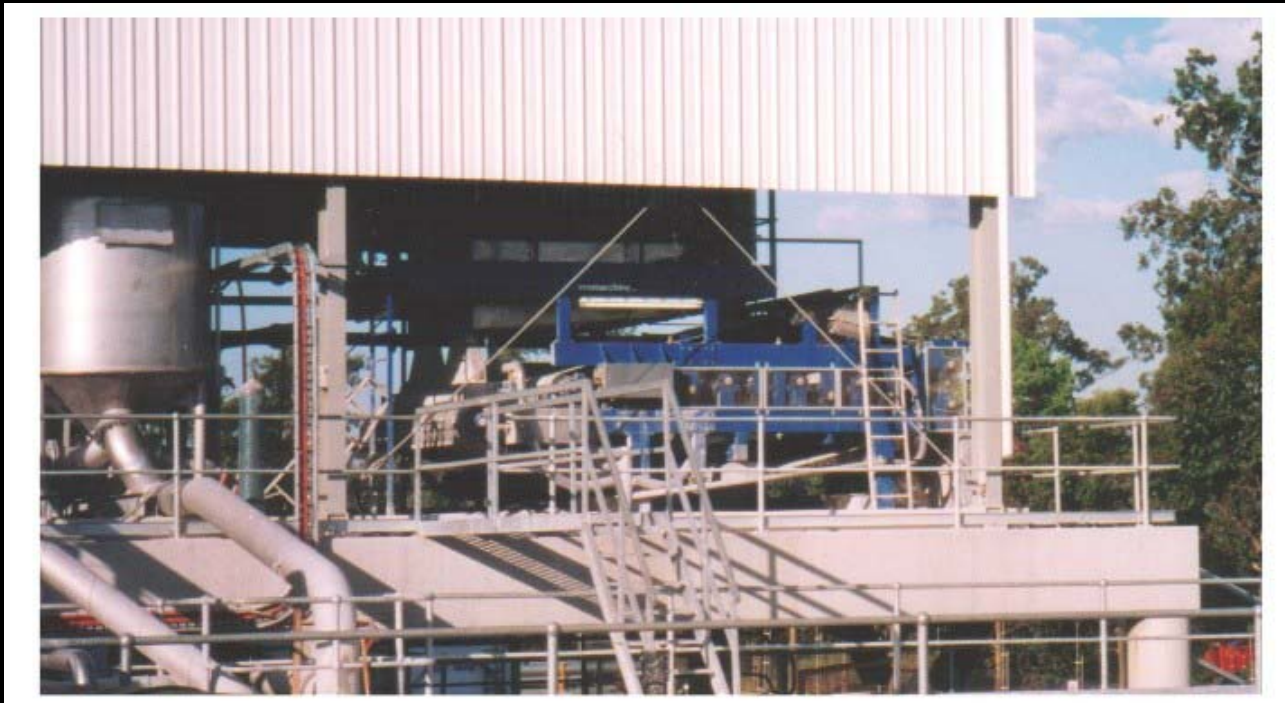
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