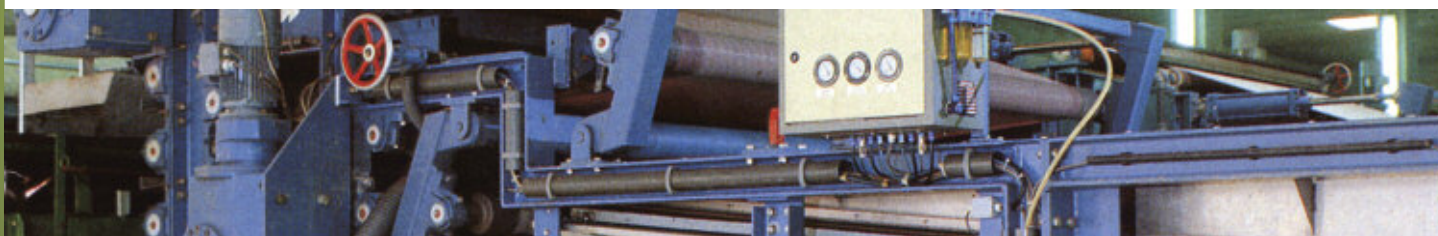


# BERLIE BELT FILTER PRESS



**Turnkey Projects Installations**



## IMPRESSIVE ADVANTAGES



- Very low electrical cost compared to centrifuges
- Relatively low equipment and installation costs
- Produces dehydrated sludge ready for further processing or for land spreading
- Operates with minimal supervision due to its high level of automation
- Provides stable and reliable operation adaptable to frequent product variations
- Requires minimal space



## RELIABLE EQUIPMENT – USEFUL AND ECOLOGICAL END PRODUCT



- Dehydrates municipal and industrial sludge and produces cakes to be further processed as fertilizers, combustibles or inert aggregate material
- Processes sludge from inlet solids content as low as 1.5%, if installed with a draining table from Berlie Technologies Inc., and can dehydrate to dryness up to 15% to 45% depending on the composition of the sludge
- Maintenance costs are very low and predictable



## SUPERIOR RESULTS



Quebec City has 5 belt filter presses on site purchased from Berlie Technologies Inc. These presses currently dehydrate the municipal sludge from a population of approximately 600,000 people. This amount of primary wastewater treatment sludge, which is currently of 50 dry metric tons per day, corresponds to the capacity of 2 ½ of the 5 belt filter presses installed, each of which has a belt width of 2.5 meters. This sludge is dehydrated from approximately 5% in solids content at the inlet to approximately 27% at the outlet. This amounts to a belt loading of about 745 pounds of dry solids per meter of belt width per hour. The dehydrated sludge is then conveyed to the rotary dryers and, finally, to the incinerator as an additional fuel source of which the calorific value is estimated to be of 13.4 MJ/Kg.



# BERLIE BELT FILTER PRESS

with belt widths from 1 to 3 meters



## THE SYSTEM



## ADVANCED TECHNOLOGY



Solids loading can vary between 400 lbs (181 kg) to more than 1000 lbs (454 kg) per meter of belt width per hour depending on sludge properties.

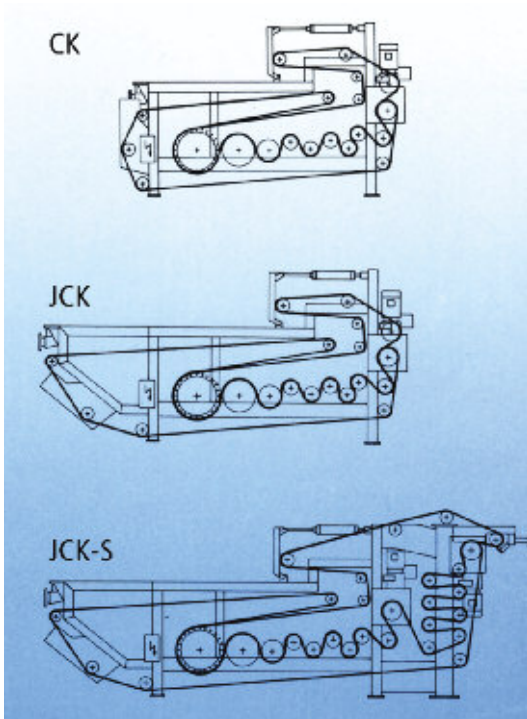
## WORLDWIDE REFERENCES



Berlie Technologies Inc. contracted and delivered, in turnkey projects, a large quantity of belt presses to municipalities, paper mills and other industries in North America and developed a wide expertise working with various sludges in combination with various polymers, belt types and press adjustments.



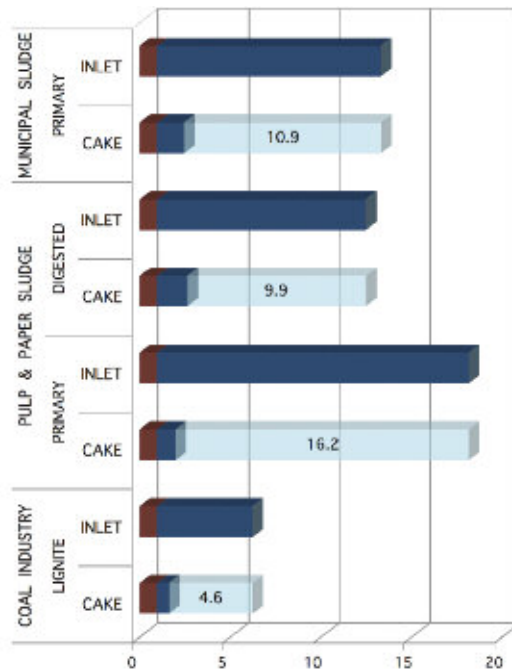
## SYSTEM CONFIGURATION



## PERFORMANCE CHART



Tons of Water Removed per Ton of Pressed Solids



Sludge Solids and Moisture

- Solids
- Remaining Water
- Water Removed



## ENERGY SAVINGS AND RECOVERY

Electrical consumption below 10 Kw-hr/dry ton processed.



Berlie Technologies Inc., a company of  
**BERLIE-FALCO**

**Engineered Solutions**