



CUSTOMER CASE STUDY

Falun Energi AB (CHP) Chipping & Materials Handling for New Pellet Plant

Company:

Falun Energi AB (CHP)

Location:

Falun, Sweden

Date of Completion:

2011

Description:

In October 2010, BRUKS AB was awarded the contract for the chipping and materials handling line at a new pellet plant in Falun, central Sweden.

The line starts with a log deck combined with a log elevator and photocells for feeding a belt conveyor that transports the logs up to the chipper. The belt conveyor is equipped with a metal detector.

Under the log deck, cleaning scrapers take care of the waste falling through the deck. The waste goes to the same discharge facility as the waste from the chipper infeed as well as oversize and fines from the screen.

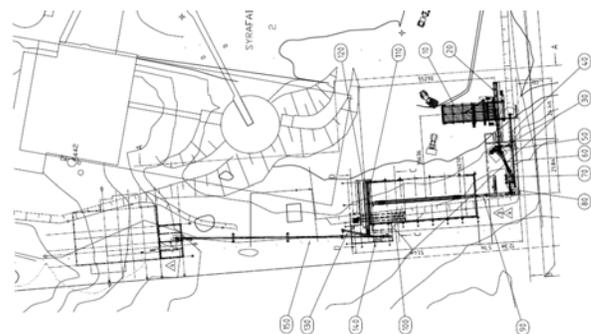
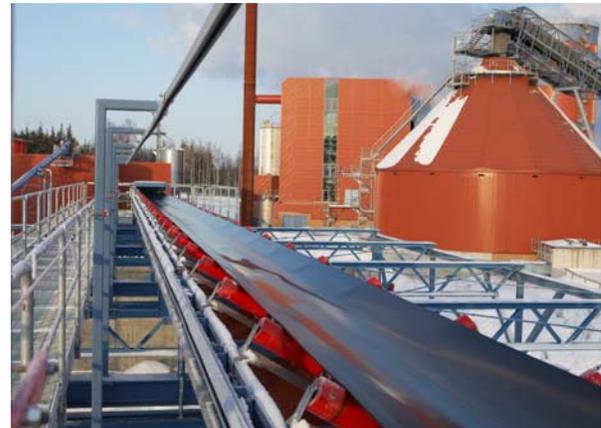
A screw conveyor takes the chips from the chipper to a screen. A vertical auger lifts the accept chips up onto a belt conveyor fitted with a plow-type distributor that discharges the chips into a storage bunker with a capacity of 2500 cu.m. The bunker's stoker reclaimers feeds the chips out into a vibratory conveyor. The vibratory conveyor is equipped with a metal detector and a screening section for separating oversize and sawdust from purchased chips. A Tubulator conveyor takes the chips from the vibratory conveyor up to the pellet plant.

Data:

Min. log length:	2.0m.
Max. log length:	5.5m.
Average log length:	4.0m.
Min. log diameter:	5-10cm.
Max. log diameter:	65cm.
Chip length:	30-35mm.

Log deck: Logs Ø150mm., 4m. long = 18 logs/min.
Logs Ø250mm., 4m. long = 5 logs/min.

Chipper/screen: Max. 200 cu.m./h
Chip storage: 2500 cu.m.; reclaiming: 50 cu.m./h
Tubulator conveyor: Max. 50 cu.m./h



14-03-10 ISD