

Ref. No. 156 – 920 ADT/Day Mixed Hardwood Kraft Mill

Overview:

- Built in 1988
- Designed for Mixed Hardwood
- Capacity: 920 adt/day
- KAMYR Continuous Digester
- Four Stage Diffuser Bleach Plant



Fiber Line

Cooking : Continuous cooking Single vessel steam/liquor phase Digester 1020 ADT/day (1987 - KAMYR)

Chip bin Enso (353 m³)
Chip meter (330 l)
Low pressure feeder (460 l / 25 rpm)
Steaming vessel (D 1800 mm / L 7000 mm)
High pressure feeder (530 l / 12rpm)
Digester (39300 mm / 887 m³)
BlowTank with Atmospheric diffuser (Diameter 7000mm / Screen area 192 m²)
Pumps / Heat exchangers / flash tanks / tanks

Brown stock Screening (1987-BLACK CLAWSON)

Knots :

Radiscreen (holes 6mm) / Raditrim (**1999-NOSS**)

Shives :

1st stage : 3 pressure screens (// 0 .25mm) (BlackClawson)

2nd stage : 1 pressure screen (// 0 .25mm) (BlackClawson)

3rd stage : 1 pressure screen (// 0 .45mm) (BlackClawson)

Vibrating screen for fibers recovery

ChemiWasher (BlackClawson)

2 washing stages. 5m width 15 m length

BrownStock storage 2600m³

Bleachplant (Kamyr - 1988) - Sequence : D₀EpD₁D₂

D₀ :

MC-pump

CIO₂ Mixer

Up-flow tower (280m³)

Atmospheric Diffuser (Diameter 7000mm / Screen area 192 m²)

Ep :

MC-pump

Up-flow tower (670m³)

Atmospheric diffuser (Diameter 6000mm / Screen area 156 m²)

D₁ :

MC-pump

CIO₂ Mixer

Up-flow tower (980m³)

Atmospheric Diffuser (Diameter 6000mm / Screen area 156 m²)



D2 :

- MC-pump
- CLO2 Mixer
- Up-flow tower (980m³)
- Atmospheric Diffuser (Diameter 6000mm / Screen area 156 m²)

Bleached pulp Storage 2000 m³

BleachPlant auxiliaries : Filtrate pumps, Heat Exchanger, Scrubber, Filtrate tanks

Chlorine dioxide Plant -2005

SVP-Lite 30tpd chlorine dioxide plant

- Generator
- Reboiler
- Cooler
- Absorption towers
- Scrubber
- Sesquisulfate cake filter
- Storages and pumps

Bleached pulp Screening (950 ADT/day) - 1990

- Radiscreen (NOSS)
- 5 Stages NOSS Radiclone compact cleaners
- 6th stage fiber recovery - 2005
- Disc-filter thickener (11 discs) (CELLECO)

Pulp Drier 720 ADT - 150 m/min (1963 Rebuild by Allimand in 1990)

Width : 3.2 meter

Wet-End

- Fan-pump (1990)
- Headbox (1990)
- Foudrinier table with all dewatering equipments & steam box. (1963)
- Horizontal pulper (1990)
- Vaccum pumps (HIBON) (1963 and 1990)

Press section

- 4 presses / 4 drying cylinders (3 first presses: 1963- 4^o presse 1990)
- Horizontal pulper

Drier (FLAKT-1990)

Flakt drier with all fans and heat recovery system
Horizontal pulper
Honeywell-Measurex Scanner

Cutter Layboy (Valmet - 1990)

Double knives / 800x800 mm sheets
Descending table

Balling line (Sunds 1990)

Weighting
Wiring
Wrapping
Barcode marking
Staking
Unitizing

Recovery Department

Evaporation Plant – Evaporation capacity : 260 t/h

Line 1 / 6 units - (Kestner 1971) : 104 t/h

2 falling films (1600 m² each)
4 rising films (1000m² each)

Line 2 / 7 units – (Kestner/PHD – 1988) : 156 t/h

5 falling films
4: 1350 m² each and 1: 1530 m² (2 units installed in 1989)
1 pre-concentrator (forced circ.) 1000 m² (1 unit installed in 1989)
1 concentrator (forced circ.) 800 m²

WBL storages : 3x600m³

SBL storages : 2x300m³

Recaustisizing : 3200m³ WL/day – (1990)

1 Slaker 60 m³
3 caustisizers (140m³ each)
White liquor filter: Clarifil (Dorr Oliver)
Lime mud pre-washing: Ecofilter (Enso)

Limekiln : 250 t/j – (1990-FLS)

92m / internal diam: 2.90 m
1 ESP (2 fields)
1 Lime Silo (500t)
1 WL drum filter (62m²) (Dorr Oliver)