

# *Acme Surplus Machinery Inc.*

Quality Surplus Machinery for Pulp & Paper

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## **Fluting Paper Mill**

### **Acme A098340**

#### **Paper Machine Description**

##### **Paper Mill Description**

The plant is composed as described below:

1. Stainless steel chips washer
2. Wood pulp digester
3. Chips defibrator (digester output)
4. Pulp washing machine Chemi-Washer by Kadant
5. Wood pulp refiners
6. n° 2 high density pulpers
7. Waste paper screens
8. Pulper reject press

This plant can produce paper fiber from waste paper or woodchips. These raw materials can be mixed in various proportions to produce different quality paper and also very Resistant paperboards.

The continuous paper machine is composed by:

1. Stainless steel pressurized headbox
2. Fourdrinier complete with stainless steel foils elements, ceramic covers and water ring stainless steel vacuum pumps
3. Press section with Combi press and shoe press METSO (year 2004)
4. Dry section with 47 dryers cast iron, 1500 dia. 5 bar P.E.D. with stationary siphons
5. Steam plant for condensate recovering
6. Steam hood carbon steel / aluminum year 2004
7. 2100m/1' rewinder with energy recovery drive

All services like lubrication plant, recycling of waters, steam distribution, electrical system have been recently revamped. All the necessary spare parts are included in the deal.

All the machines are controlled and managed by automated and electronic systems. The plant has a DCS (Distributed Control System) that can handle and control all production parameters and the corresponding machines from the control room through n.3 24" LCDs.

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## **Standard operation data for semi-chemical paper (2008)**

**Production speed:** 570 m/1'

**Mechanic speed:** 700 m/1'

**Project speed:** 900 m/1'

**H<sub>2</sub>O consumption:** 11 l/Kg

**Steam consumption:** 1.2 ton/Kg

**Installed machine power:** 2,200 KW

**Pulp treatment:** 2,500 KW

## **Wood Cooking Plant**

### **Stainless steel chips washer**

- Heavy junk trap
- Chips charger / dewatering system
- The machine washes and charges the chips into the pre-heater, after dewatering

### **Chips pre-heater**

- Capacity: 25 m<sup>3</sup>
- Steam pressure: 3.5 bar

### **Digester**

- 1,400 mm dia x 16,000 h
- Steam pressure: 13 bar

### **Digester defibrator**

- Sands Defibrator 36"
- 500 KW

### **Pulp washing machine**

- Black Clawson's Chemi-Washer
- 6 steps, final consistency: 14%

### **1<sup>st</sup> step refiner 42"**

- Sands Defibrator 42"
- 1000 Kw

## **Waste Paper Stock Preparation Plant**

### **High density pulper**

- Lamort Helico: 12 m<sup>3</sup>
- Work Density: 14%
- Automatic bales conveyor with weight control

### **Pulper reject compactor and Poire discharge taille 2 (Lamort)**

### **Secondary pulper**

- Celli Bi pulper: 12m<sup>3</sup>

### **Stock prep screens**

- Lamor CH 7
- Lamort Diabolo DT1

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## **NSSC and Fluting Paper Machine**

### **Typology**

- Fourdrinier with traditional headbox and flat wire

### **Construction**

- CARCANO "C" type

### **Flow max**

- 28,000 l/1'

### **Consistency**

- 0.8 - 1.4%

### **Max speed**

- 700 m/1'
- Sectional drive with AC motors and electrical inverters

### **Grammage range**

- From 112 up to 240 gsm

### **Width max after rewinder**

- 2,600 mm

### **Productivity**

- Until 13 t/h

### **Production**

- Until 10.5 t/h with NSSC semi-chemical fluting
- 13

### **Wire section**

- Hydrofoils elements with ceramic blades
- Low vacuum elements with ceramic covers
- Medium vacuum elements with ceramic covers
- High vacuum elements with ceramic covers
- Suction roll with Mo sulphur hard cover

### **Press section**

#### **Combi METSO**

- Vacuum Pic-up roll 90 KN/m
- Central press
- Second nip with venta cover 140 KN/m

#### **Shoe press METSO 1250 KN/m**

- Top hard cylinder with ceramic cover

### **Dry content after press section**

- 46% with NSSC fluting
- 51% with waste based fluting

### **Dry section**

#### **N° 47 cast iron dryers**

- 1500 mm dia, 5 bar (P.E.D.)
- Divided in 6 mechanical groups, separately driven
- Stationary siphons DEUBLIN 2006
- Ropes and air tail feeding

#### **Scanner**

- MEASUREX "DA VINCI" software platform

#### **Pope reeler**

- Max 2,200 mm dia (2 x 1,400 mm reels)

#### **Rewinder**

- VAS semi-auto, 2,100 m/1' (2004), DCS system

#### **Reels finishing**

- Steel tape automatic machine
- Reels elevator with roll tapes

#### **Hood**

- Sucking BRUNSCHWEILER 2006 in aluminium and carbon steel
- Integrated fire control system with sprinkler plant

#### **Controls**

- The machine is controlled by DCS system

#### **Construction and frames**

- Wet section in AISI 316 stainless steel
- Dry section by Carcano Maslianico (1965) with METSO upgrading (2004)
- Carbon steel felt rolls 240 / 270 mm dia
- 6 mechanical groups of 8 dryers with DEUBLIN 2006 stationary siphons

#### **Vacuum plant**

- N° 3 water ring NASH pumps with motor, gearbox and inverter
- N° 2 water ring NASH pumps with V-belt drive

#### **Water recovery plant**

- Wire / press pulper METSO type (2004)
- Stainless steel AISI 316 water chest
- Centrifugal pumps