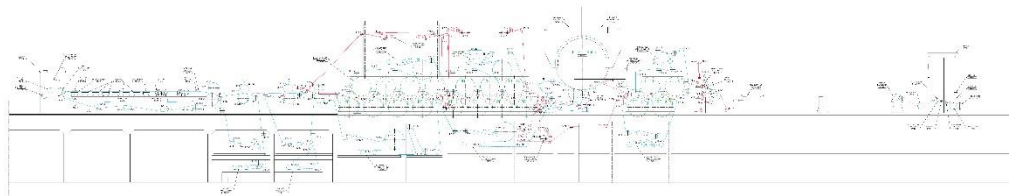
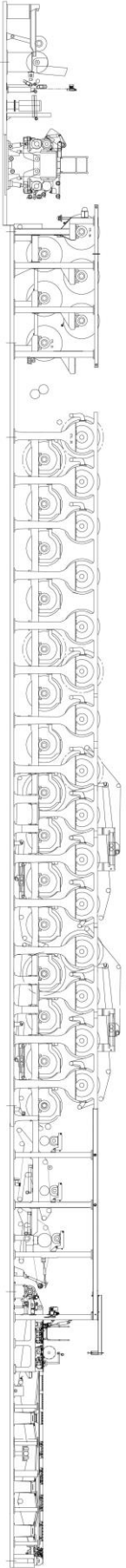


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PM2 PAPER MACHINE MG



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Control system on machine

The QCS/DCS is a Valmet system. Majority is CAN and DNA hardware which has been progressively upgraded since 2000.

Drive

DC sectional drive by Siemens model 6RA 70 installed 2001, gear drive.

Approach flow

Large Masson Scott conical refiner (not in use).

Selective refining, SW refining one 16" G L V disc refiner 4000 series, manual loading. 1 t/hr capacity, 500 ltr/min.

Masson Scott midget conical refiner (not in use). Manual loading.

HW refiner JCO3 Valmet conical refiner, auto loading.

HW refiners two 46" Sutherland Atmospheric disc refiners with auto loading.

HW capacity 6,000 ltrs/min, 4 t/hr/capacity specific ref 690 kwh.

Back water/wire pit recovery by a rectangular Sveen Saveall air flotation unit with surface scrappers for recovered fibre.

Four drum thickeners with stainless tanks and central drum, for long fibre, B fibre, Eucalyptus and broke.

Stock Preparation Cleaning

Noss 4 stage L/D cleaner system. Cascade type in four stages. No recovery system,

Machine pressure screens two Beloit Centriscreens model 10 stainless steel. Slotted baskets 0.35mm slots.

Primary and secondary fan pumps.

Paper machine Beloit Walmsley. MG

Basement machine with drive on left from the flowbox. year 1956, last major rebuild/overhaul 2018.

Production 30,000 t/year

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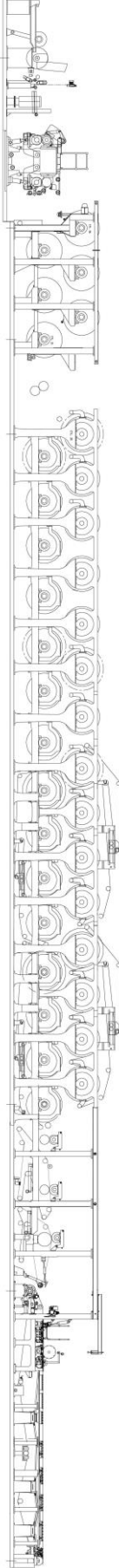
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t/hr at 44gsm 5t/hr.
Total width 5016 mm.
Production width 4650mm.
Maximum production speed 500m/min.
Mechanical speed Range 550 m/min balance.
Product light weight bag kraft.
Grammage range 27 to 100 gsm.
Pulp type OCC/Pine/Eucalyptus
Production in 2022: 25,623 t, two breaks / day, 73tons working day average.
Stainless hog pit chest
Dry end stainless pulper under pope with infeed tray from roll splitter.

Flowbox

PMP flowbox type intelijet V, stainless steel with a diffuser, the flowbox has had recently fitted slice lip profile control PMP Intel. Adjustable jacks, CD weight control, slice lip 5016 mm, 50 slice actuators, zone width 50mm, consistency 0.2%, flow 35,000 l/min. Pressurized with recent slice control equipment..

Wire section

Wire section: run out type. No wire shake, dewatering comprising forming board, two foil boxes with smart foils, four foil boxes with gravity foils, one low vacuum Albany unifoil unit, four vacuum boxes each with eight chambers.
Wire frame: stainless with some cast and fabricated parts. Breast roll to couch roll: centres 17 mtrs. Suction couch cantilevered with top felted lump breaker roll. Judd wire guide. Dry content after wire section: 19%.

Press sections

Type open draw straight through press
Press max load kN/m 35/55/35
Dry content after third press 32%
First open draw couch to first press
Suction press roll with r/cover 1st press ceramic top roll with spare rubber covered top roll.
2nd press composite cover with Top Rock covered top roll
3rd press rubber covered
Video monitoring on presses for breaks.

Dryer Section

Pre dryers, steam pressure 3.8 bars.
Mixture of A/F and oil ring bearings
Diameter 1830mm
Rotary syphons for condensate
Pre dryers 15 conventional

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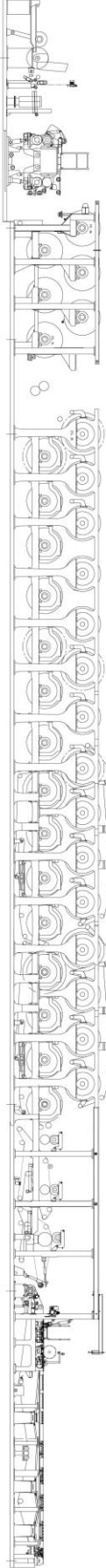
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Enclosed gear drive
Moisture content after pre-drying 4-6%
Cooling cylinders 6 out of service
Monitoring systems are for moisture after the MG and reel up

MG cylinder

Sandusky Walmsley cast iron cylinder
Shell diameter 4267mm (14 ft).
Maximum roll load 100 Kn/m
Designed maximum pressure 6.9 bar
Year of manufacture 2001
Single press roll pneumatic loading rubber covered
Anti-friction roller bearings
MG as supplied and tested 2022 and first regrind was completed.

MG Hood

Gas burner air heated
Winterburn manufacture
Dry and wet end fans
Dry and wet end burners. Wet end burner in service.

Post dryers

4 conventional type.
Anti-friction bearings.
Enclosed gear drives.

Cross machine scanner

Valmet IQ scanner measuring:
Profile, Gsm, Caliper, Moisture.
WebVision WIS

Reel up

Black Clawson horizontal reel up, web change system TUSA 1VTape Turnup
Width at pope: 4650mm
Pneumatic operation
Pneumatic tail transfer
To left side of machine house: a roll splitter feeding into the stainless dry end pulper.

Machine Drive

DC sectional electric drive, Siemens model 6 RA 70 installed 2001.

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Vacuum system

Nash 900 series, located to outside of the machine house.

Three Nash vacuum pumps for felt conditioning in the basement.

Two Nash vacuum pumps for the suction boxes in the basement.

Rewinder

Beloit rewriter, year 1956, single shaft type unwind with brake and motor

Working width 4560mm.

Capacity 50 reels/hr

Minimum reel width 2600mm

Plastic wrap

11 manual settings slitters, bottom slitters with individual drives.

Main drive individual motors to each drum.

Drive on right side from the unwind.

Cores 3 to 5"

Reel transport by Lamb slat conveyor floor mounted.

Rewind maximum diameter 1530mm, minimum 500mm.

Reel packer

Lamb reel packer, Year 1956, capacity 50 reels/hr.

Maximum reel width: 2560mm/ minimum reel width 300 mm.

Minimum reel diameter: 1530mm

Rebuilds

1969 open headbox to hydraulic rectifier headbox

1975 second press upgrade

1985 MG hood replacement

2000 VIB installation

2000 Siemens drive upgrade

2002 MG cylinder upgrade

2018 headbox upgrade

2019 CD Weight control/WIS upgrade

2020 Refining upgrade/ HV Switchboard upgrade

2022 LV Switchboard upgrade.

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