

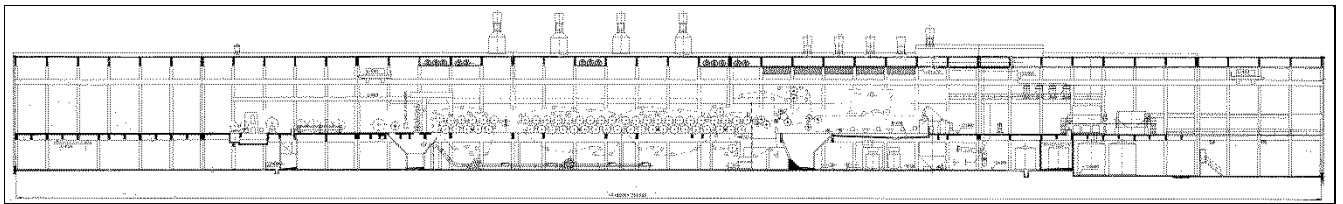
John Wilkie Paper Mill Services Ltd
Registered office: Maryfield St Fillans Perthshire UK PH6 2NF
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Mobile 0044(0)7967 726501
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TWO PAPER MACHINES 8500mm Reel Width

These machines will only be sold for the production of brown grade papers.

Mill voltage is 525 volts and incoming voltage is 10,000 volts, 3phase and 50 cycles.

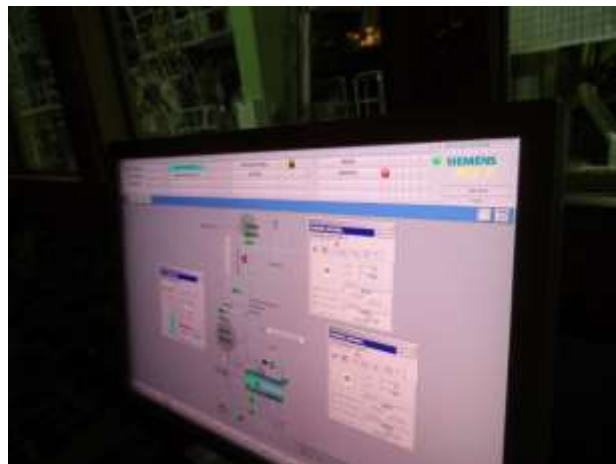
Number 1 Paper Machine Producing Newsprint



Year built 1972, Valmet manufacture, 1000m/min, 165,000 t/year, trim 8400mm, 45 to 55 gsm. Wire part Valmet Symformer R upgraded 1984. Valmet Twinver press with three nips. 52 Dryers in four groups. QCS systems are Honeywell type open 1995.

Theoretical Production Table:

Speed (m/min)	Grammage (g/m ²)	Efficiency	Trim	Production (t/day)
1050	45	1	8400mm	572
1020	45	0.88	8350mm	486



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Machine computer system: Partly Seimens PCS7

Soleplate centres:

Wire section: 9,880mm

Press section: 10,050mm

Drying sections: 9,950mm

Approach flow

Tampela drum thickener in stainless for back water fibre thickening, , gearbox drive, stainless construction. Year 1972. Discs are 5 mtrs diameter x 6 mtrs length.



Hedemora disc filter with stainless segments, vacuum assisted, total of 20 discs. Support steel work, Gear motor drive.

Jylhavara Fiberizer with a 200kw motor



Clark and Vicario Deculator with Richard Berg stainless cleaners.

Jylhavara roll splitter for broke reels feeding in to the rewinder pulper.

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Four Tampella /BCI pressure screens model 30 P with perforated baskets 1.6 mm holes, gearbox drives.

Rejects to a Tampella /BCI pressure screen model 24P with 1.6mm holes.

Rejects to a Tampella vibrating screen with 4 mm holes.

Colour kitchen with various tanks and colour pumps.

Paper machine Hall

Basement designed paper machine with drive on the right side from the wet end.



Sectional electric drive

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In basement: variable speed fan pump. Four CL 9002T vacuum pumps with a common drive.
Two reconditioned pumps as spares. Stock and water pumps.

Paper Machine



Headbox: Symflow, 8820mm slice width, profile control by 72 actuators 123mm.
Thermacontrol of the headbox slice, design speed 1000 m/min. Headbox 1200m/min.

Paper machine drive ABB, design speed 1000m/min, DC operation.

Instrumentation: Seimens teleperm, Mx control system.

Maintainance by SKF microlog and ABB Argus systems.

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Heat recovery by Valmet Pansio. Part dismantled (outer roof).

Former: Symformer with 84 actuators, outer wire width 9100mm, wire length 24,300 m, inner wire width 9100mm and wire length 50,000 mm. Installed power 1.620 Kw.

Two suction boxes and vacu foils. Wire is cantilevered with stainless frame.

Press section



Suction pick up. Press type Twinver and 3rd press.

Felt length 30,000 mm: first nip loading 70Kn/m.

Felt length 25,500 mm: second nip loading 90 kN/m. Kuster roll installed

Felt length 26,000mm: third nip loading 90 kN/m. Kuster roll installed.

Ule felt cleaning box.

Valmet steam box with 40 zones.

Dryer sections



52 Drying cylinders in four groups, 1500 mm diameter, A/F dryer bearings with auto lub system. There is a space before the first dryer section where an inter-calender was previously installed. Operating pressure of drying cylinders is 2.5 bar.

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Oil tank in basement. System has a centrifuge for water separation from oil.

Totally enclosed dryer hood with front lifting door, sheathen rope tape tail feed. Sectional electric drive.

Dryers have enclosed gear drives.

Dryer sections one and two are the main steam groups, with single felt. Third and fourth dryers are cascade system. Dryer felts are 48,000, 107,000, 66,500 and 43,000 mm lengths. Felt cleaning by nozzles and chemically cleaned in during machine shuts.

Undermachine pulper for sheet breaks and tail trims with twin rotors and v belt drives.

Runability systems: uno run, sym run and press run.



Reel up

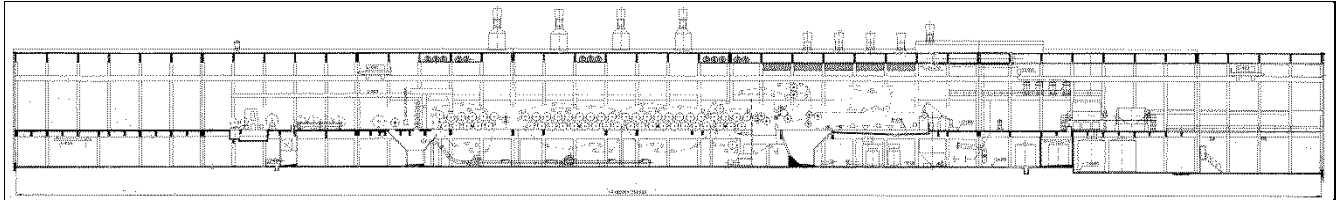


Valmet horizontal reel up with roll accelerator, hydraulic operation, maximum roll diameter 2600mm, maximum roll width 8500mm. Grooved drum, reel shell diameter 770 mm.

Ulma hole detector.

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Number 2 Paper Machine Producing Newsprint



Year built: 1974, of Valmet manufacture. Speed 1000 m/min, 165,000 t/year, trim 8400mm, gsm 45 to 55. Wire part: Valmet Symformer R, upgraded 1985. Valmet Twinver press with three nips. 52 dryers in four groups. QCS systems: ABB year installed 2010. (Complete new system software and hardware.)

Theoretical Production Table:

Speed (m/min)	Grammage (g/m ²)	Efficiency	Trim	Production (t/day)
1150	45	1	8400mm	626
1130	45	0.88	8350mm	538

Machine computer system: Seimens PCS7

Soleplate centres:

Wire section: 9,880mm

Press section: 10,050mm

Drying sections: 9,950mm

Approach flow



Sprout Waldron refiners, four 20" refiners with 250 kW motors and two 26" type 26EMA with 500 kW motors.

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Hedemora disc filter with stainless segments, vacuum assisted, total of 20 discs. Support steel work, Gear motor drive. Discs are 5 mtrs diameter x 6 mtrs length.

Tampela drum thickener in stainless for back water fibre thickening, , gearbox drive, stainless construction. Year 1972, 2.5 mtrs diameter x 6 mtrs length.

Jylhavara Fiberizer with a 200kw motor



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Four Tampella /BCI pressure screens model 30 P with perforated baskets 1.6 mm holes, gearbox drives.



Rejects to a Tampella /BCI pressure screen model 24P with 1.6mm holes.



Ahlstrom vertical reject pressure screen type MODUScreen FO.

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Clark and Vicario Deculator with Richard Berg stainless cleaners, this system has an additional LD cleaner stage on the papermachine level supplied by Andritz.

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Paper Machine Hall



Basement designed paper machine with drive on the left side from the wet end.



Sectional electric drive.



Gear drive system for dryers.



In basement: variable speed fan pump and four CL 9002 T vacuum pumps with a common drive.

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The mill has two reconditioned CL9002 T pumps spare.

Stock and water pumps.

Paper Machine



Headbox: Symflow 8820mm slice width, profile control by 72 actuators 123m with electrical stepmotors. Thermocontrol of the headbox, slice design speed 1000 m/min. Headbox 1200m/min. Drive is ABB , design speed 1000m/min and DC operation. Instrumentation Seimens teleperm, Mx control system. Maintenance by SKF microlog and ABB Argus systems. Heat recovery by Valmet Pansio.

Former: Symformer R with 85 actuators, outer wire width 9100mm wire length 24,300 m, inner wire width 9100mm and length 50,000 mm. Installed power 1.620 Kw. Two suction boxes and vacu foils. Wire is cantilevered with stainless frame.

Press section



Suction pick up. Press type Twinver and third press.

Felt length 30,000 mm: first nip loading 70Kn/m.

Felt length 25,500 mm: second nip loading 90 kN/m. Kuster roll installed

Felt length 26,000mm: third nip loading 90 kN/m. Kuster roll installed

Ule felt cleaning box.

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Steambox in press section with 117 actuators.

Fourth nip loading to be specified.

Valmet steam box with 40 zones.

Dryer Sections



52 Drying cylinders in four groups, 1500 mm diameter, A/F dryer bearings with auto lub system. Operating pressure of drying cylinders is 2.5 bar.

Oil tank in basement. System has a centrifuge for water separation from oil.

Totally enclosed dryer hood with front lifting door, sheathen rope tape tail feed. Sectional electric drive.

Dryers have enclosed gear drives.

Dryer sections one and two are the main steam groups, with single felt. Third and fourth dryer sections are cascade system. Dryer felts are 48,000, 107,000, 66,500 and 43,000 mm lengths. Felt cleaning by nozzles and chemically cleaned in during machine shuts. Moisturiser between third and fourth group with 117 actuators (VIB dampening system operated by air pressure and water.)

Runability systems: uno run, sym run and press run.

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Reel Up



Valmet horizontal reel up with roll accelerator, hydraulic operation, maximum roll diameter 2600mm, maximum roll width 8500mm. Grooved drum, reel shell diameter 770 mm.

Ulma hole detector.

General:

The paper machines have a range of spare wires and felts.

Each paper machine will be sold with one overhead crane.

There is a full photo data base showing the system through each paper machine.

Foundation, plan and side elevation drawings are available on the paper machines.

These machines will only be sold for the production of brown grade papers.

THIS INFORMATION IS THE TITLE OF JOHN WILKIE PAPER MILL SERVICES LTD AND SHOULD NOT BE COPIED OR FORWARDED TO A THIRD PARTY WITHOUT CONSENT.

FOR YOUR GENERAL INFORMATION WE HAVE TO INTIMATE THE FOLLOWING TO YOU:

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Whilst every reasonable effort has been made to verify any statement, description, or comment made within this schedule, for the avoidance of doubt it is emphasised that the purchaser must make their own enquiries and satisfy themselves.