

Paper machine 6333 mm



Paper machine, final sheet width 6333mm with two ply Fourdrinier forming section, one conventional nip press and one extended nip press, 72 dryer cylinders, single nip soft roll above heated roll calendar, Windrum-M, fully automated winder, strapping line and lowerator and a 450 odmtpd Recycle Facility



BASIS OF DESIGN

Hand: Machine and Base Ply Fourdrinier: - Drive on right side from Headbox

Top Ply Fourdrinier: - Drive on left side from flow box

Drive: Gear Drive, A-C variable Frequency

Wire Width: 6900mm

Headbox Pond Width: 6722mm

Sheet Width after Couch: 6650

Sheet Width at Pope: 6333 - 6483

Trim of Winder design (Min, Max): 6350 (6300-6400)

Speed: 390 – 850mpm. Balanced for 900mpm (new). Operating at 800mpm

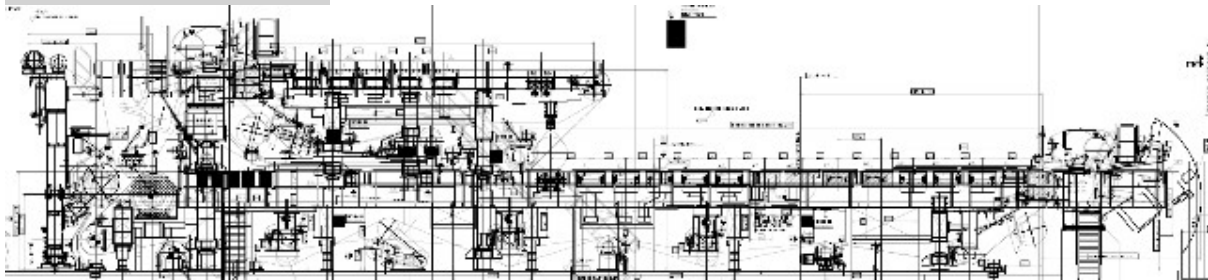
Basis Weight Range: 115 – 337gsm (Kraft Liner, SC Medium, RF Medium, WT Liner)

Capacity: Best of 340,000 ADT per annum

Total Steam Usage, Including Water and Air heating: 130,250 kg/h

Total Effluent: 1.4mtpd

FORMING SECTION



BASE PLY DRIVE:

Top Couch Roll:

Motor: Reliance, DL2508, 575V/75kW/4P

G/Box: Valmet SIG-225, 4.118:1

Couch Suction Roll:

Roll: Black Clawson 54"/Valmet

Dia: OD-1371.6mm, ID-1245mm

Width: Bearing Centres-307.984, Shell-7058mm, Max Suction-6800

Motor: Reliance, 9450, 575V/530kW/4P

G/Box: Valmet S2G-315K, 7.843:1

Return Roll:

Motor: Reliance, DL2508, 575V/75kW/4P

G/Box: Valmet SIG-225, 3.579:1



NOTE: Decommissioned Lump-breaker Roll

TOP PLY DRIVE:

Top Ply Return Roll:

Motor: Reliance, D315S, 575V/355kW/4P

G/Box: Valmet SIG-225, 3.579:1

Top Ply Roll Turning:

Motor: Reliance, 9450, 575V/530kW/4P

G/Box: Valmet SIG-280, 5.0:1



HEADBOX TOP PLY



Make:

Valmet

Model:

SYMFLO T

Slice Width: 6722mm
Slice Flow: Min - 916l/s, Max-1816l/s, Design-1350l/s
Slice Adjustor Type: JETMATIC MTD Actuators
Slice Adjuster Number: 89
Slice Adjuster Pitch: 75mm

HEADBOX BASE PLY



Make: VALMET
Model: SYMFLO TD
Slice Width: 6722mm
Slice Flow: Min - 1100l/s, Max-2200l/s, Design-1683l/s
Slice Adjustor Type: JETMATIC MTD Actuators
Slice Adjuster Number: 89
Slice Adjuster Pitch: 75mm
Dilution Control: 112 points/60mm Zone Width

HEADBOX DILUTION CONTROL SYSTEM



Make: ABB

Model: XP2

Number of Actuators: 112

Actuator Pitch: 60mm

Headbox Dilution Supply

Base Ply Headbox Dilution Pump

Motor: Reliance, D315E, 415V/220kW/4P

Pump: AHLSTROM ZPP 21-300, 436l/s, 31m

Base Ply Headbox Dilution Screen

Motor: POPE, D280M, 415V/55kW/6P

Pump: Black Clawson UV 400



PRESS SECTION



FIRST PRESS

Type: Two Roll Straight Press
Top Roll: Black Clawson, FP463
Bottom Roll: Black Clawson, FP465
Suction Pick Up Roll:
Make: VALMET
Dia: OD 1010mm, ID 990mm
Width: Shell-6982mm, Perf-6807.2mm, Suction-Max-6682mm/Min-6382mm



Drives:

Suction Pick Up Roll:

Motor: Reliance, DL2508, 575V/75kW/4P

Top Press Roll Drive:

Motor: Reliance, 9450, 575V/530kW/4P

Gearbox: Valmet, S1G-3155K, 7.843:1

Bottom Press Roll Drive:

Motor: Reliance, 9450, 575V/530kW/4P

Gearbox: Valmet, S1G-3155K, 7.843:1



SECOND PRESS

Type: Shoe Press

Top Roll:

Make: Valmet Sym-Belt
 Belt Dia: ID 1425mm, OD 1510mm
 Belt Length: 7700mm (min 7680, Max 7880)

Bottom Roll:

Make: VALMET SYM ZL Roll
 Dia: 1160mm
 Width: Shell 7200mm, Nip 7000mm
 Weight: 43000kg
 Cover: Variolastic 15 +/- 3 P&J
 Gear Ratio: 6.261:1

Suction Transfer Roll:

Make: VALMET
 Dia: OD 1010mm, ID 990mm
 Width: Shell-6982mm, Perf-6807.2mm, Suction-Max-6682mm/Min-6382mm



Drives:

Suction Transfer Roll:

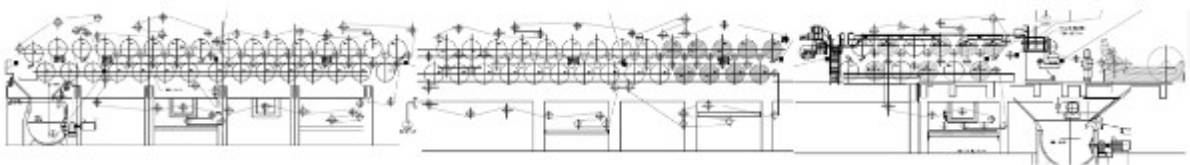
Motor: Reliance, DL2508, 575V/75kW/4P

Sym-Belt Drive:

Motor: Reliance, 9450, 575V/530kW/4P x 2
Gearbox: Valmet, S1G-225K, 1.023:1



DRYING CYLINDERS





CYLINDERS x 10

Make: Valmet

Diameter: 1524 mm (60")

Face Width: 6756.4mm (266")

Design Code: ASME Section 1 -1995 Edition

Operating Pressure: 0 – 863 kPag

Hydro Test Pressure: (original hydro was 1725 kPag)

Design Temperature: 0 – 180 °C

CYLINDERS x 61

Make: Black Clawson

Diameter: 1524 mm (60")

Face Width: 6756.4mm (266")

Design Code: BS1452 – 1961 Tested to ASME Code

Operating Pressure: 0 – 863 kPag

Hydro Test Pressure: 1293 kPag (original hydro was 1725 kPag)

Design Temperature: 0 – 180 °C

DRIVES:

1st Section: (Cyls 2-5) #1 Felt Driven

Motor: Reliance, DL2515, 415V/110kW/4P

VSD: ABB

G/Box: VALMET, S2G-250, 7.059:1



2nd Dryer: (Cyls 6-15)

Motor: Reliance, D315E, 415V/220kW/4P

VSD: ABB

G/Box: VALMET, S2G-250, 7.059:1



3rd Dryer: (Cyls 16-31) 32-35 Undriven

Motor: Reliance, D315M, 415V/335kW/4P

VSD: ABB

G/Box: VALMET, S2G-250, 7.059:1



4th Dryer: (Cyls 36-47)

Motor: Reliance, D315E, 415V/335kW/4P

VSD: ABB

G/Box: VALMET, S2G-250, 7.059:1



5th Dryer: (Cyls 48-59)

Motor: Reliance, D315E, 415V/335kW/4P

VSD: ABB

G/Box: VALMET, S2G-250, 7.059:1



6th Dryer: (Cyls 60-61)

Motor: Reliance, DL2508, 415V/75kW/4P

VSD: ABB

G/Box: VALMET, UNIG 200K 4.952:1



7A Dryer (Cyls 62-63) 64-65 Undriven

Motor: Reliance, DL2508, 415V/75kW/4P

VSD: ABB



G/Box: VALMET, UNIG 200K 4.952:1

7B Dryer (Cyls 66-71)

Motor: Reliance, D315E, 415V/335kW/4P

VSD: ABB

G/Box: VALMET, S2G-250, 7.059:1



HOOD SECTION

Blow Box Supply Fan



Pocket Vent fans x 3



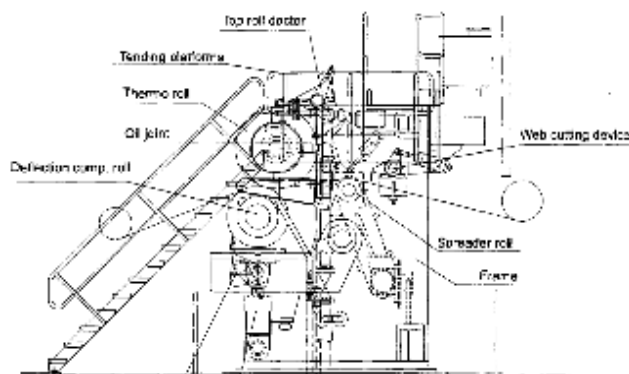
Hood Exhaust Fans x 5



CALENDAR

Make:	VALMET
Model:	OPTIHARD 6483
Top Thermo Roll Diameter:	1016mm
Top Thermo Roll Face Width:	6733mm
Bottom Soft Roll Diameter:	Shell-760mm, Covered-791mm
Bottom Soft Roll Face Width:	6605mm, Cover-6592mm
Bottom Soft Roll Material:	Hunt & Muscroft/Voith Composite
Max Supply Oil Temp:	200 Deg C
Design Speed:	900m/min
Linear Load:	Max-130kN/m, Min-20kN/m
Bottom Roll	
Motor:	Reliance, D315E, 415V/335kW, 4P
G/Box:	Valmet, SIG 225K 4.118:1
VSD:	ABB
Top Roll	
Motor:	Reliance, DL2508, 415V/75kW, 4P
G/Box:	Valmet, CIG 200K 5.26:1
VSD:	ABB





POPE

Make:	BLACK CLAWSON
Model:	48" AUTOFLYTE REEL- Water Cooled
Balanced Speed:	175RPM
Roll Dia:	1219.2mm, Dia @ Centre of Crown 1220.8mm
Roll Face Width:	6604mm
Drive:	
Motor:	Reliance, D315E, 415V/335kW/4P
G/Box:	Valmet, 52G 250, 7.571:1
VSD:	ABB





HD 14 Supply (Kraft)

HD 14 Feed Pump:

Drive: POPE, D315M, 415V/132kW/4P

Pump: AHLSTROM APP53-100, 73l/s, 73.2m

HD 14 Agitator Unit

Drive: CMG, D315M, 415V/110kW/6P

G/Box: FALK, 2100Y1L, 4.19:1

Agit: Chemineer, 70PB1I



HD 9 Supply (NSSC)

HD 9 Feed Pump:

Drive: CMG, D250M, 415V/75kW/4P

Pump: GOULDS 3175S, 96l/s, 20.8m

HD 9 Agitator Unit

Drive: POPE, D315L, 415V/150kW/6P

Agit: HYMAC CA/54-E, 54" Dia, Size 'E' – Belt Drive



HD 11 Supply (Bleach HW)

HD 11 Feed Pump:

Drive: CMG, D250M, 415V/75kW/4P

Pump: GOULDS 3175S, 96l/s, 20.8m

HD 11 Agitator Unit

Drive: POPE, D315S, 415V/175kW/6P

Agit: JONES 4522 – Belt Drive



HD 15 Supply (Recycled) - As per Wastepaper Plant Document

Top Ply LD Chest:

Top Ply LD Chest Pump:

Drive: Marathon, D315S, 415V/75kW/6P

Pump: AHLSTROM APP53-150, 98.6l/s, 30.3m

Top Ply LD Chest Agitator Unit

Drive: POPE, D315S, 415V/150kW/4P

Agit: Chemineer 60PB1Z – Belt Drive



Top Ply Intermediate Chest

Top Ply Intermediate Chest Pump:

Drive: POPE, D280S, 415V/45kW/6P

Pump: AHLSTROM APP44-150, 83.1l/s, 28.4m

Top Ply Intermediate Chest Unit

Drive: POPE, D315M, 415V/150kW/6P

Agit: Chemineer 60PB1Z – Belt Drive



Top Ply Blend Chest

Top Ply Blend Chest Pump:

Drive: POPE, D280M, 415V/55kW/6P

Pump: AHLSTROM APP51-250, 161.9l/s, 21.1m

Top Ply Blend Chest Agitator Unit

Drive: POPE, D315M, 415V/110kW/6P

Agit: Chemineer, 60PB1Z – Belt Drive



Top Ply M/C Chest

Top Ply M/C Chest Pump:

Drive: POPE, D315M, 415V/90kW/6P

Pump: AHLSTROM APP44-200, 161.8l/s, 30m

Top Ply M/C Chest Agitator Unit

Drive: POPE, D315M, 415V/110kW/6P

Agit: Chemineer, 50PB1Z – Belt Drive



Base Play NSSC Chest

Base Ply NSSC Chest Pump:

Drive: POPE, D315M, 415V/32kW/4P

Pump: AHLSTROM APP53-200, 134.6l/s, 57.3m

Base Ply NSSC Chest Agitator Unit

Drive: ASEA, MBRF29S, 415V/160kW/6P

G/Box: DAVID BROWN, NH12 5.063:1

Agit: JONES DD55-A-237



Base Ply Recycle LD Chest

Base Ply Recycle LD Chest Pump:

Drive: POPE, D280S, 415V/75kW/4P

Pump: AHLSTROM APP44-150, 100.4l/s, 37m

Base Ply Recycle LD Chest Agitator Unit

Drive: POPE, D315S, 415V/132kW/4P

Agit: Chemineer 50PB1Z – Belt Drive



Recovered Stock Chest

Base Ply Recovered Stock Chest Pump:

Drive: POPE, D225M, 415V/30kW/6P

Pump: AHLSTROM APP43-250, 142.7l/s, 11.9m

Base Ply Recovered Chest Agitator Unit

Drive: CMG, D250M, 415V/75kW/4P

Agit: Chemineer 40PB1S – Belt Drive



Base Ply LD Chest

Base Ply LD Chest Pump:

Drive: POPE, D315M, 415V/110kW/6P

Pump: AHLSTROM APP53-200, 197l/s, 37.4m

Base Ply LD Chest Agitator Unit

Drive: POPE, D355L, 415V/185kW/6P

Agit: Chemineer, 60PB1Z – Blet Drive



Base Ply Blend Chest

Base Ply Blend Chest Pump:

Drive: POPE, D315M, 415V/110kW/6P

Pump: AHLSTROM APP52-350, 372l/s, 20.4m

Base Ply Blend Chest Agitator Unit

Drive: POPE, D355L, 415V/185kW/6P

Agit: Chemineer, 60PB1Z – Belt Drive



Base Ply M/C Chest

Base Ply M/C Chest Pump:

Drive: POPE, D315L, 415V/150kW/6P

Pump: AHLSTROM APP53-300, 347l/s, 19m

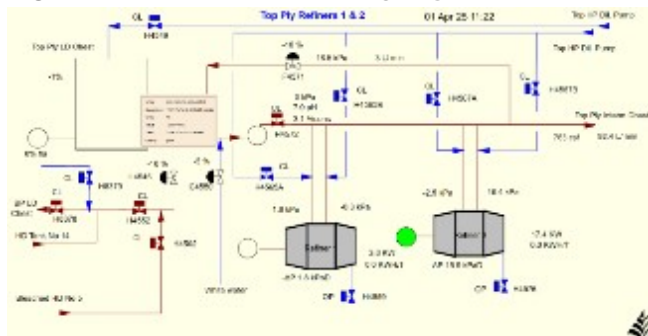
Base Ply M/C Chest Agitator Unit

Drive: POPE, D315L, 415V/185kW/4P

Agit: Chemineer, 60PB1Z – Belt Drive



TOP PLY KRAFT REFINERS 1 & 2



Refiner 1:

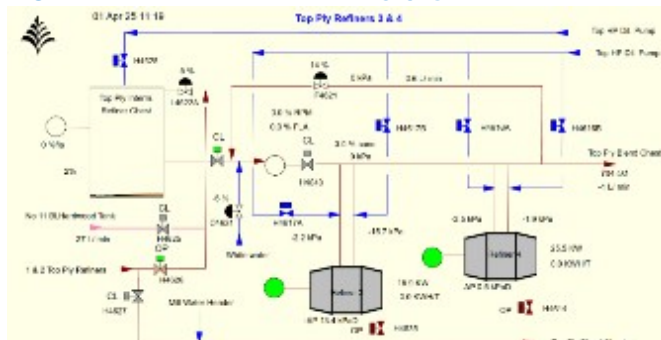
Motor: EMC, 12L5225, 3.3kV/1300kW/12P
Refiner: JONES DD 4600 Series 42"

Refiner 2:

Motor: EMC, 12L5225, 3.3kV/1300kW/12P
Refiner: JONES DD 3300 Series 42"



TOP PLY KRAFT REFINERS 3 & 4



Refiner 3:

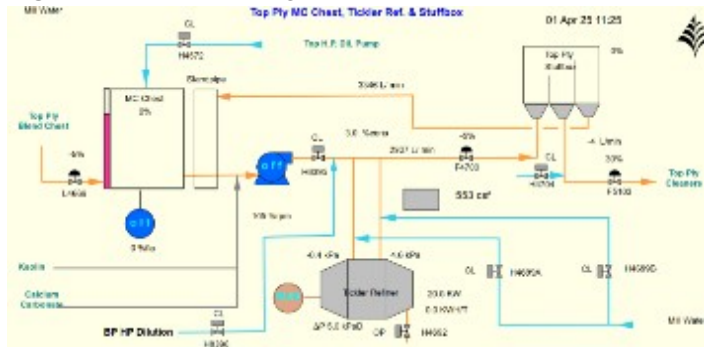
Motor: EMC, 12L5225, 3.3kV/1300kW/12P
Refiner: JONES DD 3300 Series 42"

Refiner 4:

Motor: EMC, 12L5225, 3.3kV/1300kW/12P
Refiner: JONES DD 3300 Series 42"



TOP PLY KRAFT TICKLER REFINER



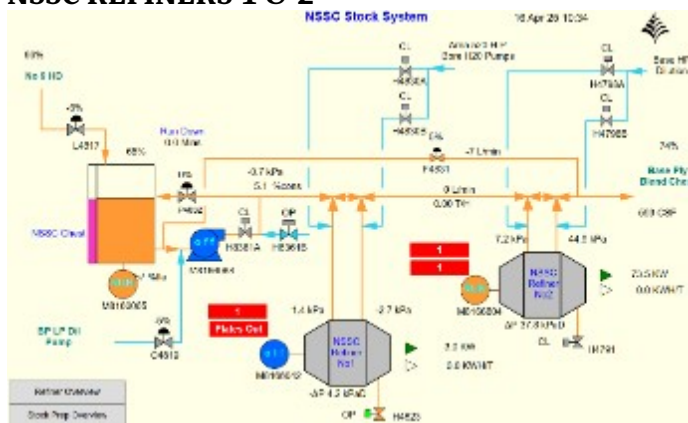
Tickler Refiner:

Motor: CGE, 779, 3.3kV/930kW/12P

Refiner: JONES DD 3300 Series 42"



NSSC REFINERS 1 & 2



Refiner 1:

Motor: CGE, 779Y, 3.3kV/1300kW/12P

Refiner: JONES DD 4600 Series 42"

Refiner 2:

[illegible]

Motor: EMC, 14L6224, 3.3kV/1500kW/12P
Refiner: JONES DD 42"

[illegible]

BASE PLY TICKLER REFINER 1 & 2

Refiner 1:

Motor: EMC, 12L525, 3.3kV/1300kW/12P

Refiner: JONES DD 3300 Series 42"

Refiner 2:

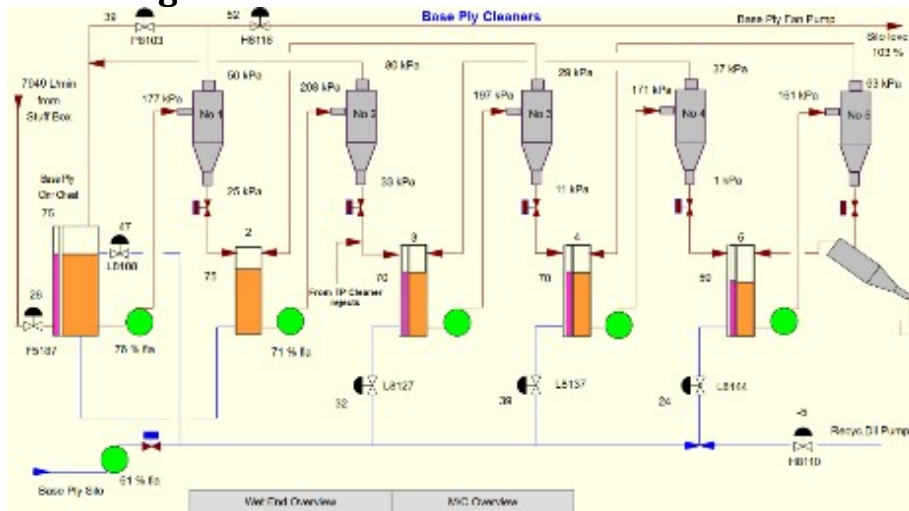
Motor: EMC, 12L525, 3.3kV/1300kW/12P

Refiner: JONES DD 3300 Series 42"



APPROACH SYSTEM

Screening



Base Ply Primary Screening

Base Ply Fan Pump

Motor: 2 x RELIANCE, 46CMG50, 415V/800kW/6P

Pump: AHLSTROM 2X80Y-2 Fan Pump, 2618l/s, 36.5m

VSD: ABB



Primary Screen

Motor: POPE, D355L, 415V/150kW/8P

Screen: Black Clawson, UV900, #96-UV900 -8096

Belt Drive, 0.4mm Slot



Base Ply Secondary Screening

Base Ply Secondary Screen Standpipe

ACME, 2500 Dia 14.7m³

Base Ply Secondary Screen Standpipe Agitator

Motor: CMG, 415V/0.75kW/4P

Agit: CHEMINEER 20PB1S, Belt Drive

Base Ply Secondary Screen Pump

Motor: POPE, D250M, 415V/37kW/6P

Pump: AHLSTROM APP43-300, 216,1l/s, 12m



Base Ply Tertiary Screening

Base Ply Tertiary Standpipe

ACME, XXDia XXm³

Base Ply Tertiary Screen Pump

Motor: CMG, D160L, 415V/11kW/6P

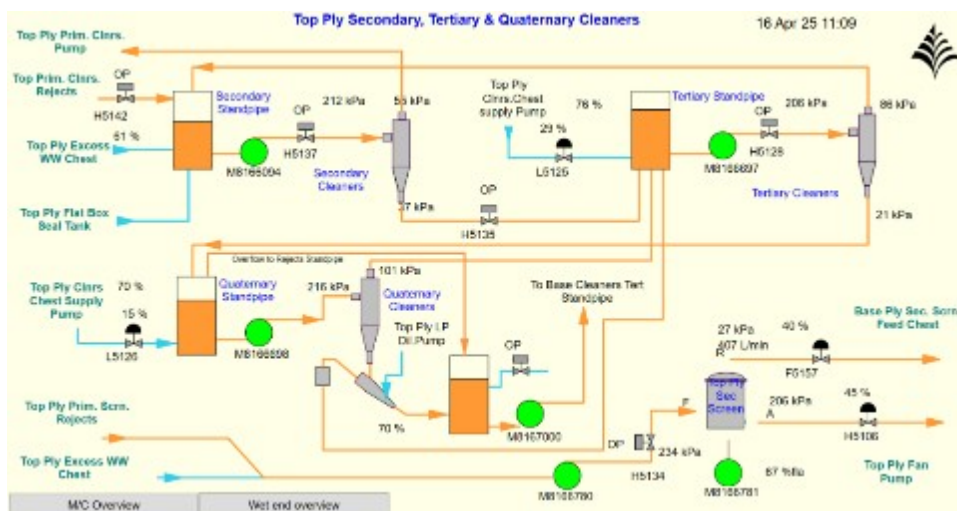
Pump: AHLSTROM APP33-100, 27.7,1l/s, 15.2m

Base Ply Tertiary Screen

Motor: CMG D200L, 415V/18.5kW/6P

Screen: BLACK CLAWSON, MIAMI SELECTOR SCREEN 24P

Belt Drive, 0.4mm Slot



Top Ply Primary Screening

Top Ply Fan Pump

Motor: RELIANCE, 46CMG50, 415V/800kW/6P

Pump: AHLSTROM ZPP62-700 Fan Pump, 1356.1l/s, 29.0m

VSD: ABB



Primary Screen

Motor: POPE, D355L, 415V/150kW/8P

Screen: Black Clawson, UV900, #96-UV900 -8096, Belt Drive, 0.4mm Slot



Top Ply Secondary Screening System

Top Ply Secondary Screen Pump

Motor: POPE, D280S, 415V/45kW/6P

Pump: AHLSTROM APP53-200, 108l/s, 25.4m

Top Ply Secondary Screen

Motor: POPE, D200L, 415V/22kW/6P

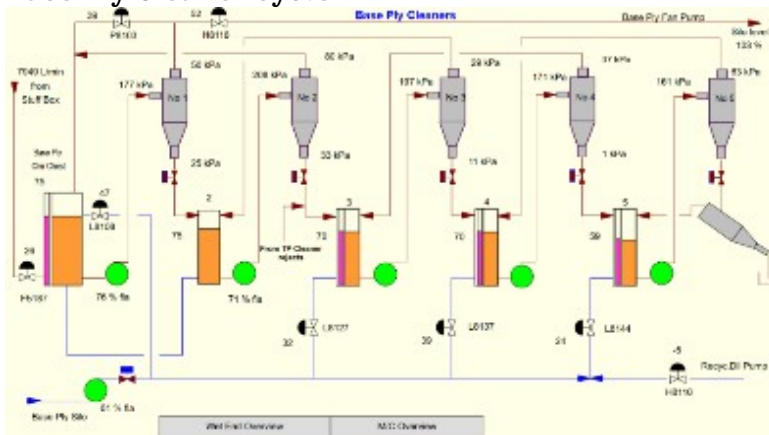
Screen: Black Clawson UV200 #96-UV200-8095, Belt Drive, 0.4mm Slot

NOTE: Rejects to Base Ply Secondary Screen Feed Tank



CLEANING

Base Ply Cleaner System



Base Ply Primary Cleaning

Base Ply Primary Cleaners Pump

Motor: Toshiba, 415V/750kW/8P

Pump: SULZER, ZPP62-700, 1653l/s, 28.3m



Base Ply Primary Cleaners

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 700 LD Centricleaners

Number cleaners installed: 40 + 40 (80 Total)



Base Ply Secondary Cleaning

Base Ply Secondary Cleaner Standpipe

ACME, 1200 Dia, 5.2m³

Base Ply Secondary Cleaners Pump

Motor: POPE, D280S, 415V/45kW/6P

Pump: AHLSTROM APP53-200, 558l/s, 29.5m

VSD: ABB

Base Ply Secondary Cleaners

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 700 LD Centricleaners

Number cleaners installed: 54



Base Ply Tertiary Cleaning

Base Ply Tertiary Cleaner Standpipe

ACME, 1100 Dia, 3.6m³

Base Ply Tertiary Cleaners Pump

Motor: POPE, D315S, 415V/110kW/4P

Pump: AHLSTROM APP43-250, 207l/s, 28.1m

Base Ply Tertiary Cleaners

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 700 LD Centricleaners

Number cleaners installed: 20 (manifold for 24)



Base Ply Quaternary Cleaning

Base Ply Quaternary Cleaner Standpipe

ACME, 760 Dia, 1.35m³

Base Ply Quaternary Cleaners Pump

Motor: POPE, D225M, 415V/45kW/4P

Pump: AHLSTROM APP42-150, 83l/s, 27.7m

Base Ply Quaternary Cleaners

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 700 LD Centricleaners

Number cleaners installed: 4



Base Ply Quintenary Cleaning (Fibremizer)

Base Ply Quintenary Cleaner Standpipe

ACME, 600 Dia, 0.91m³

Base Ply Quintenary Cleaners Pump

Motor: POPE, D225M, 415V/37kW/4P

Pump: AHLSTROM APP33-100, 41.3l/s, 34.4m

Base Ply Quintenary Cleaners (Fibremizer)

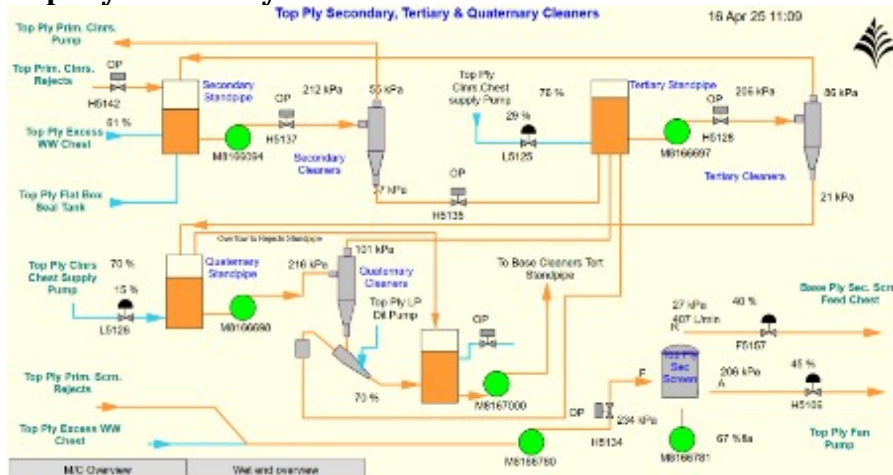
Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 350

Number cleaners installed: 4



Top Ply Cleaner System



Top Ply Primary Cleaning

Top Ply Primary Cleaners Pump

Motor: WEG, D355L, 415V/250kW/6P

Pump: AHLSTROM ZTT-50, 688l/s, 25m



Top Ply Primary Cleaners

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 700 LD Centricleaners

Number cleaners installed: 32 (64 Total)



Top Ply Secondary Cleaning

Top Ply Secondary Cleaner Standpipe

ACME, 1200 Dia, 5.2m³

Top Ply Secondary Cleaners Pump

Motor: Toshiba, D355LY, 415V/280kW/6P

Pump: AHLSTROM APP54-400, 558l/s, 29.5m

Top Ply Secondary Cleaners

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 700 LD Centricleaners

Number cleaners installed: 19 (manifold for 24)



Top Ply Tertiary Cleaning

Top Ply Tertiary Cleaner Standpipe

ACME, 800 Dia, 1.12m³

Top Ply Tertiary Cleaners Pump

Motor: POPE, D250S, 415V/37kW/6P

Pump: AHLSTROM APP53-100, 60.6l/s, 32.9m

Top Ply Tertiary Cleaners

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 700 LD Centricleaners

Number cleaners installed: 6 (manifold for 8)



Top Ply Quaternary Cleaning

Top Ply Quaternary Cleaner Standpipe

ACME, 450 Dia, 0.59m³

Top Ply Quaternary Cleaners Pump

Motor: Marathon, D160M, 415V/15kW/2P

Pump: AHLSTROM APP21-65, 20.2l/s, 36.9m

Top Ply Quaternary Cleaners

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 700 LD Centricleaners

Number cleaners installed: 4



Top Ply Quintenary Cleaning (Fibremizer)

Top Ply Quintenary Cleaner Standpipe

ACME, 450 Dia, 0.5m³

Top Ply Quintenary Cleaners Pump

Motor: POPE, D90L, 415V/1.5kW/4P

Pump: AHLSTROM APP11-32

Top Ply Quintenary Cleaners (Fibremizer)

Make: GL&V

Model: ALFA LAVAL CELLECO Cleanpac 350

Number cleaners installed: 1



PULPERS/REPULPERS

HARDWOOD PULPER

Conveyor:

Make: NZFP

Motor: WEG, D200L, 415V/18.5kW/6P

G/Box: Unknown

Pulper:

Make: Black Clawson

Model: 16'-0" Hydrapulper, 67.2" VOKES Rotor

Motor: Siemens 1LA5478, 425V/250kW/8P

Pulper: Black Clawson C512505 3B Hydrapulper

Pulper Discharge Pump:

Motor: CMG, D280S, 415V/75kW/4P

Pump: Allis Chalmers PWO, 40.5l/s 41m

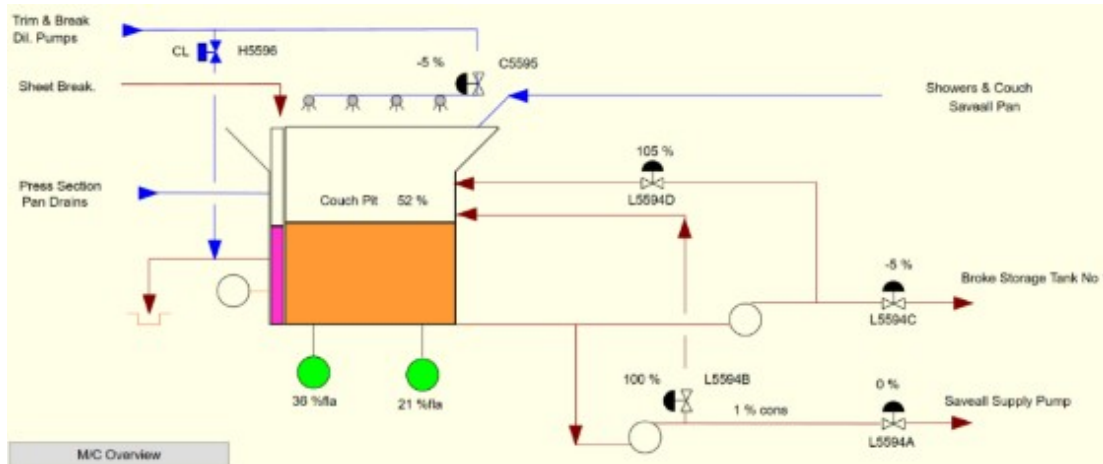
Dilution Pump:

Motor: Newman, D180L, 415V/15kW/6P

Pump: Allis Chalmers PWO, 50l/s 15m



COUCH PIT REPULPER



Make: Beloit/Walsmley

Capacity: 69m^3

Drive: POPE, D315L, 415V/110kW/4P – x 2

Agit: Chemineer 60PB1Z, SD50/G – x 2

Couch Pit Scraper Unit

Drive: CMG, D200L, 415V/22kW/6P

Agit: Chemineer, 40PB1S

Couch Pit Trim Pump:

Drive: POPE, D280S, 415V/45kW/6P

Pump: AHLSTROM APP53-150, 99.2l/s, 24.3m

Couch Pit Break Pump:

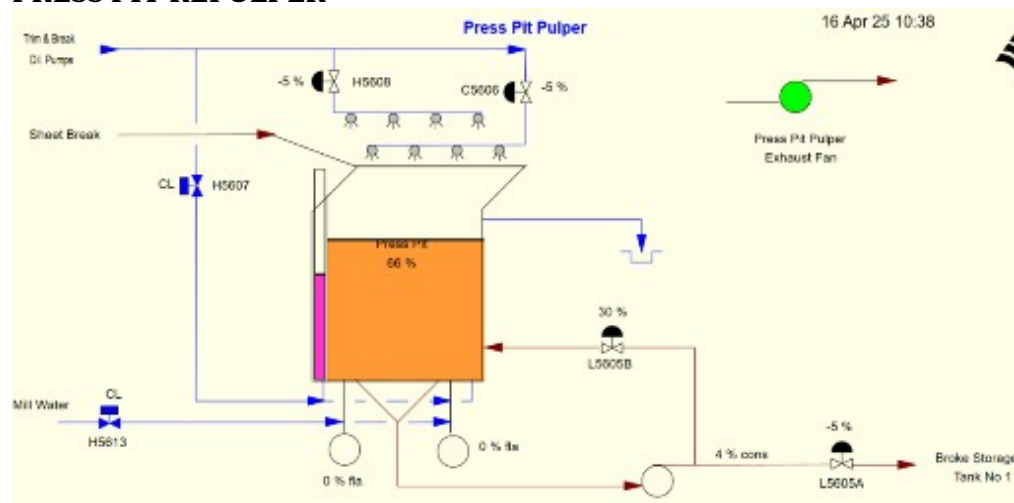
Drive: POPE, D315L, 415V/150kW/6P

Pump: AHLSTROM APP52-400, 427l/s, 25m





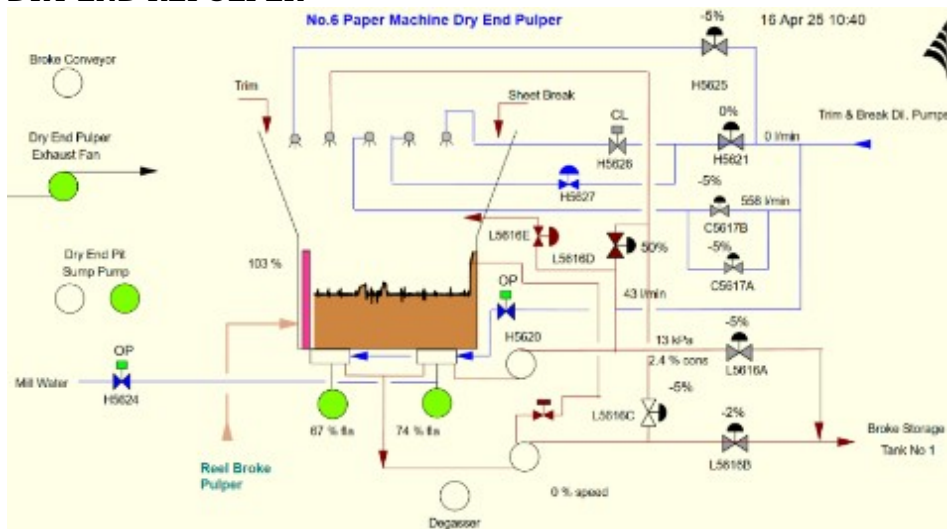
PRESS PIT REPULPER



Make: VALMET SDF50/2G
 Capacity: 48m^3
 Drive: POPE, D315L, 415V/185kW/4P – x 2
 G/Box: VALMET, S1G-315R/L, 6.235:1 – x 2
 Agit: VALMET, SD50/G – x 2
 Discharge Pump:
 Drive: POPE, D355L, 415V/185kW/6P
 Pump: SULZER APP52-400, 427l/s, 26.7m



DRY END REPULPER



Make: VALMET SDF50/2G
 Capacity: 61m³
 Drive: WEG, D315LY, 415V/315kW/4P – x 2

G/Box: VALMET, S1G-315P, 5.526:1 – x 2

Agit: VALMET, SD50/G – x 2

Discharge Pump:

Drive: CMG D355L, 415V/132kW/4P

Pump: SULZER APP44-200, 150l/s, 42m

Break Pump:

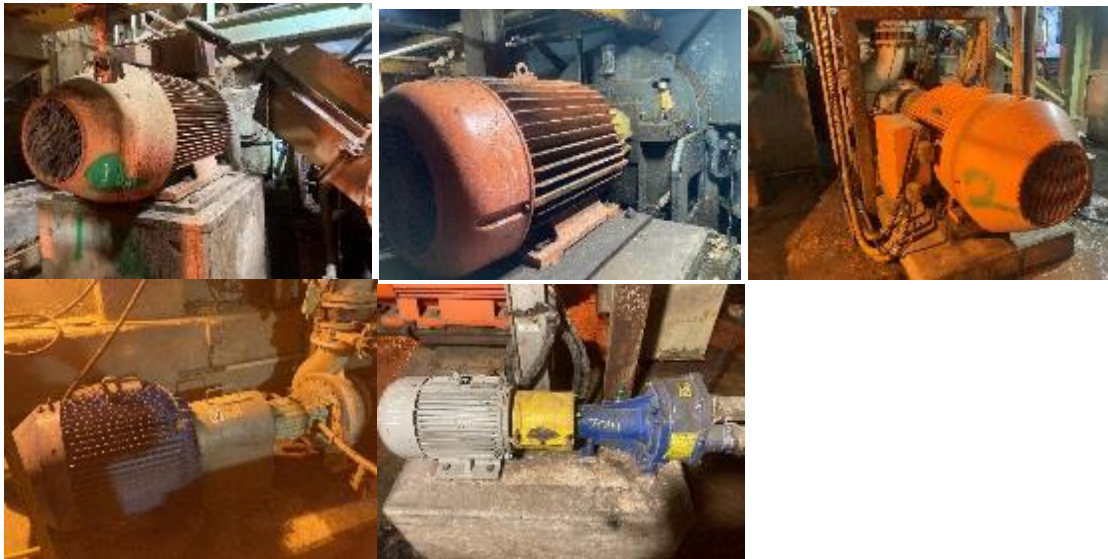
Drive: CMG D355L, 415V/315kW/6P

Pump: SULZER APP43-300, 426.7l/s, 31.3m

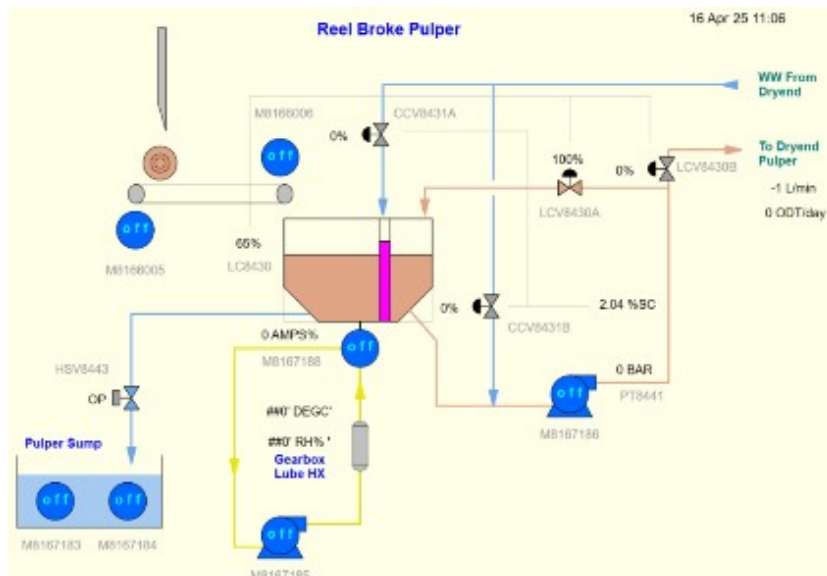
Pulper Vacuum

Drive: CMG D132S, 415V/5.5kW/4P

Pump: NASH AHF75MC



BROKE REPULPER



Make: GL&V – 52" TRI-DYNE Model 5418

Capacity: 50m³

Drive: WEG, D355LY, 3.3kV/355kW/6P

G/Box: DAVID JONES; 450V

Discharge Pump:

Drive: CMG D280M, 415V/55kW/6P

Pump: SULZER APP53-150, 141l/s, 70m

Conveyor:

Drive: POPE, D160M, 415V/7.5kW/6P

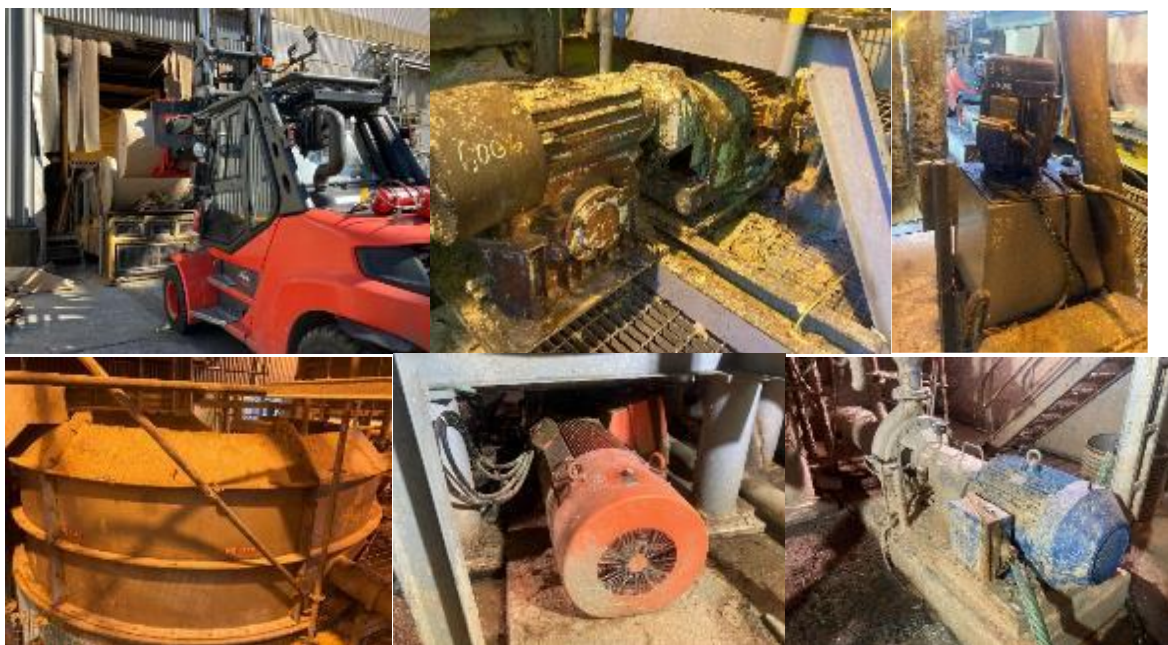
G/Box: RADICON BSO-10, 167.06:1

Guillotine Hydraulics

Drive: TECO,

Pump: Vickers 25VQ-21A-1C-20

2.5m Guillotine, Conveyor System, Sump Pumps



POLYDISC SAVEALL

Make: ALFA LAVAL, 5M-L1-10(8)-325,

Disk Diameter: 5.2m

Number of discs per sector: 14

Number of Sectors: 8

Min Process Design: 202.4 BDMTPD\25050 LPM\0.56%\522 CSF

Max Process Design: 419.7 BDMTPD\29763 LPM\0.98%\480 CSF

Saveall Drive

Motor: POPE: D200L, 415V/22kW/6P

G/Box: Link Belt/Rexnord, E450-21HK-RU-3-500, 500.58:1

Shower Drive

Motor: POPE, D80, 415V/0.55kW/4P

G/Box: Link Belt/Rexnord, MWH085X31B, 225:1

Repulper Drive

Motor: CMG, D160L, 415V/15kW/4P

G/Box: Link Belt/Rexnord, 215FX05, 4.933:1

Saveall Supply Pump

Motor: POPE, D315M, 415V/110kW/6P

Pump: AHLSTROM, APP52-400, 497l/s, 14.2m

Saveall Shower Pump

Motor: POPE, D280S, 415V/75kW/2P

Pump: AHLSTROM, APP23-50, 25.2l/s, 110.8m

Saveall Sweetener Pump

Motor: POPE, D200L, 415V/22kW/6P

Pump: AHLSTROM, APP44-150, 52.5l/s, 18.5m

Shower Strainer Supply Pump

Motor: POPE, D250L, 415V/37kW/6P

Pump: AHLSTROM, APP44-200, 121.4l/s, 20.0m



BROKE

Broke Transfer Pump

Motor: CMG, D355L, 415V/185kW/6P

Pump: AHLSTROM APP55-300, 325l/s, 39.1m

Broke Chest Agitator

Motor: ASEA, MBRF27, 415V/75kW/6P

Agit: WALSMELY, 48" V.P. Prop Integral Agitator

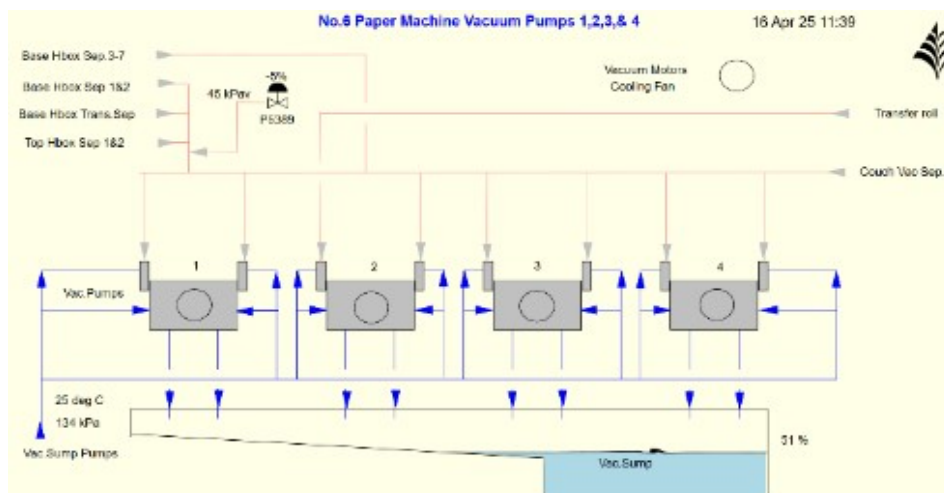
Broke To Saveall Pump

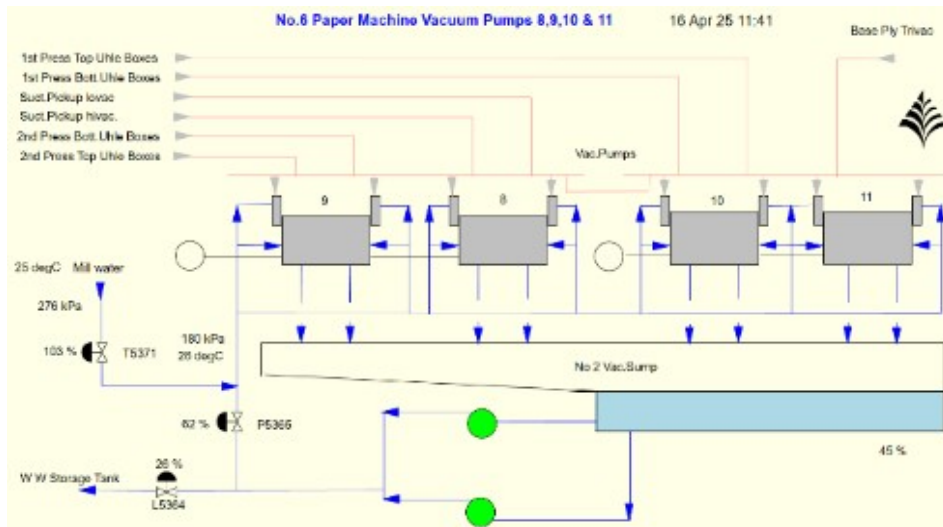
Motor: POPE, D280S, 415V/75kW/4P

Pump: GOULDS 3175M, 127.5l/s, 16.4m



VACUUM SYSTEM





Wire Box Top/Base Ply Vacuum Pump #1

Motor: POPE, D355LY, 415V/315kW/4P
Reduction: Pinion 23T/Gear 104T
Pump: NASH CL6001G



Wire Box Base Ply Vacuum Pump #2

Motor: POPE, D355LY, 415V/315kW/4P
Reduction: Pinion 23T/Gear 104T
Pump: NASH CL6001G



Couch Roll Vacuum Pump #3

Motor: POPE, D355LY, 415V/315kW/4P
Reduction: Pinion 23T/Gear 116T
Pump: NASH CL6002G



Couch Roll Vacuum Pump #4

Motor: POPE, D355LY, 415V/315kW/4P
 Reduction: Pinion 23T/Gear 116T
 Pump: NASH CL6002G



Vacuum Box Vacuum Pump #5

Motor: POPE, D355LY, 415V/315kW/4P
 Reduction: Pinion 23T/Gear 104T
 Pump: NASH CL6001G



Vacuum Box Vacuum Pump #6

Motor: POPE, D355LY, 415V/315kW/4P
 Reduction: Pinion 23T/Gear 116T
 Pump: NASH CL6002G



Vacuum Box Vacuum Pump #6

Motor: POPE, D355LY, 415V/315kW/4P
 Reduction: Pinion 23T/Gear 104T
 Pump: NASH CL6001G



Suction Pick Up #8 and 2nd Press #9 Vacuum Pumps

Motor: CGE, 779Y, 3.3kV/1000kW/12P
 Reduction: Falk, 465A1-C, 2.043:1
 Pump: #8 – NASH 904/S2, #9 – NASH 904/U2



1st Press Top/Bot Press Felt #10 and Trivac #11 Vacuum Pumps

Motor: CGE, 779Y, 3.3kV/1000kW/12P

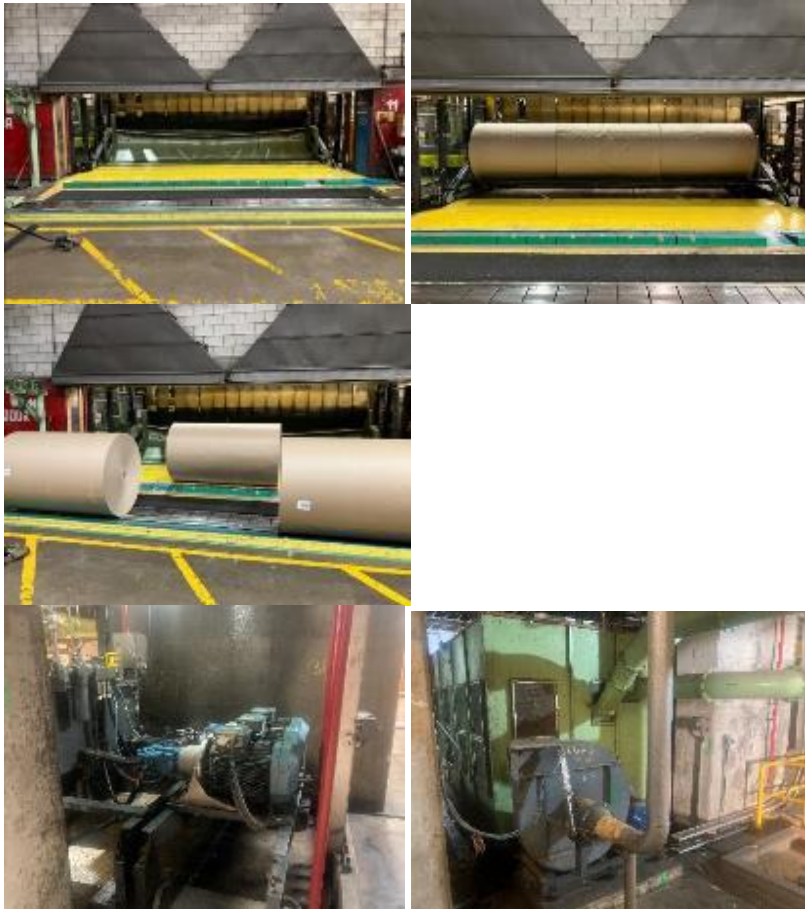
Reduction: Falk, 465A1-C, 2.043:1 and PGD-280-M1, 0.675:1
Pump: #10 – NASH 904/U2, #11 – NASH CL6001G



WINDER

Make: Valmet
Model: Windrum-M
DOM: 1997
Speed: 2300m/min
ACC Rate 0.7m/S²
Web Tension 1960Nm
Max Reel Width: 6450
Max Reel Dia: 2745
Trim Width: Max 6400, Min 6050, Min Slitting Width 142mm
Number of Slitters: 14
Trim: Trim/Side Max – 150mm, Trim/Side min – 20mm
Max Dia: 1828mm
Cores: 76mm, 89mm, 102mm
Control System: VALMET Windcontrol
Slitter Positioning: VALMET Windposit
Hydraulic System, Trim Fan & Ducting





Winder Drives:

Unwind:

Motor: Reliance 9240, 575V/550kW/6P

Drive: AB Powerflex 755

Rear Drum:

Motor: Reliance 28EC5812S, 575V/450kW/6P

Drive: AB Powerflex 755

Front Drum:

Motor: Reliance 28EC5812S, 575V/450kW/6P

Drive: AB Powerflex 755



CORE CUTTING

Make: CORE LINK

Model: TYPE 3090 with Dual side Hoppers & Dust Extraction



ROLL HANDLING

KICKER & CUSHION ROLL STOPS

Make: LAMB-GRAYS

Model: 63 & 76 Cushion roll Stops



REEL STENCILLER

Make: VALMET

Model: Reel Stenciller



STRAPPER

Make: SIGNODE

Model: M20RMF

Comes with spare head



LOWERATOR

Make: LAMB-GRAY HARBOUR

Model: 13 E85W-0

Speed Up: 130 FPM

Speed Down 130 FPM



**PROFILING
QCS SCANNER**



Year: 1997

Upgrade: 2019 upgraded to NP1200 with NP PCIe ASPC Assembly

Sensors:

- Smart Basis Weight Sensor (Krypton 85 Assembly)

- GT Caliper Sensor
- HP Colour Sensor
- HPIR – T Moisture Sensor
- Smart Ash Sensor
- Sheet Edge Sensor

QCS System:

- 800xA QCS 6.1 SP2
- Two-Ply System Configuration
- MD and MCD control
- MD level 1 control on Foxboro DCS (Except weight control direct on ABB QCS system)

CALLIPER PROFILER

Complete System with Actuators, Support and Power Modules

Make: Measurex Devron

Type: Calcoil

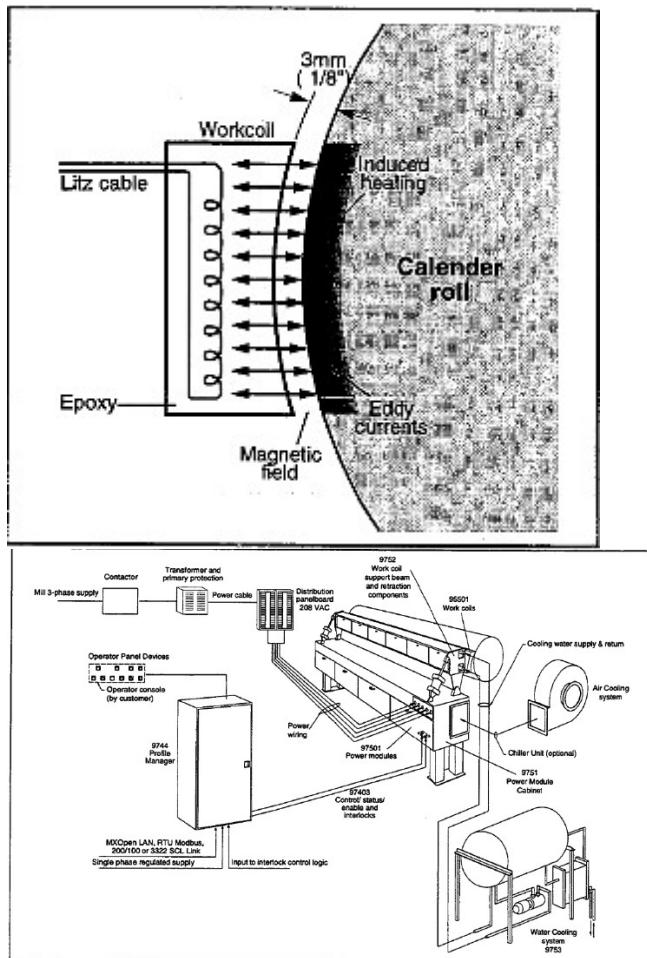
Model: 4000 HT, Electromagnetic Induction

Rating: 4kW per zone

Work Coil Standard Width: 76.2 angled and Water cooled

Work Coil Number: 45

Maximum Working Temperature: 160 °C



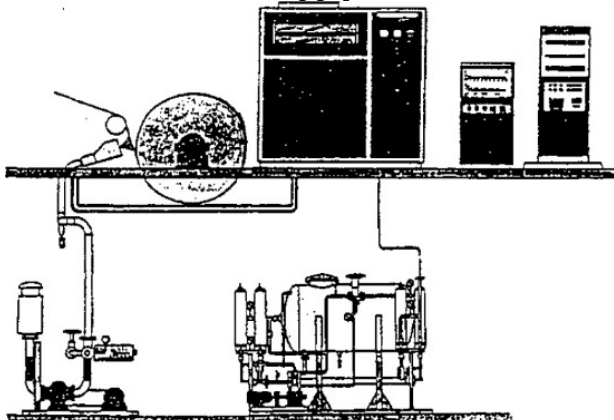
MOISTURE PROFILER

Make: VIB

Model: Type Spraydampener EC

Spray Number: 64

Consists of Cd Control Sprayboom/Culr Control Sprayboom with actuated nozzles, control unit, water supply unit with filters & pumps, Air supply unit



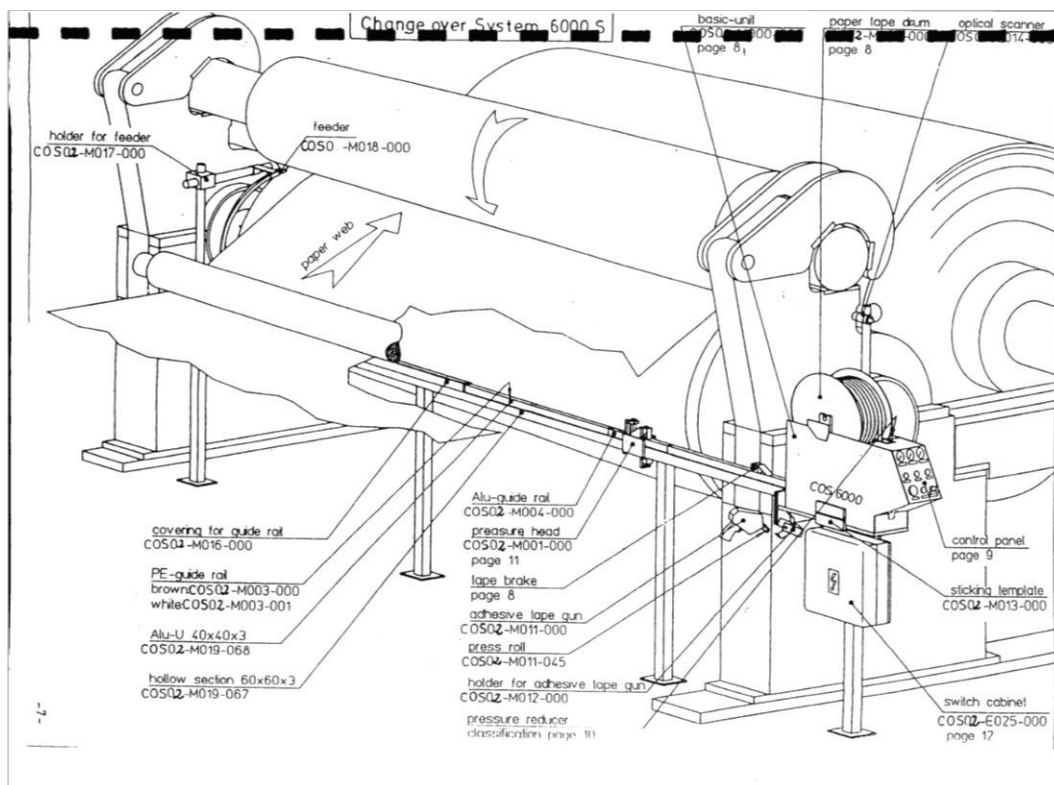
REEL CHANGEOVER SYSTEM

Make: Sandar Industries

Model: TUSA III

DOM: 2002





TAIL FEED SYSTEMS

Make: VOITH

Model: VIBRON



SHOWER WATER FILTERING SYSTEMS

STRAINER

MAKE: AES

MODEL: 4040 Gravity Strainer, 100 mesh screen



BACKFLUSH FILTERS

CLARIFIED WHITE WATER – LP

FRESHWATER – LP

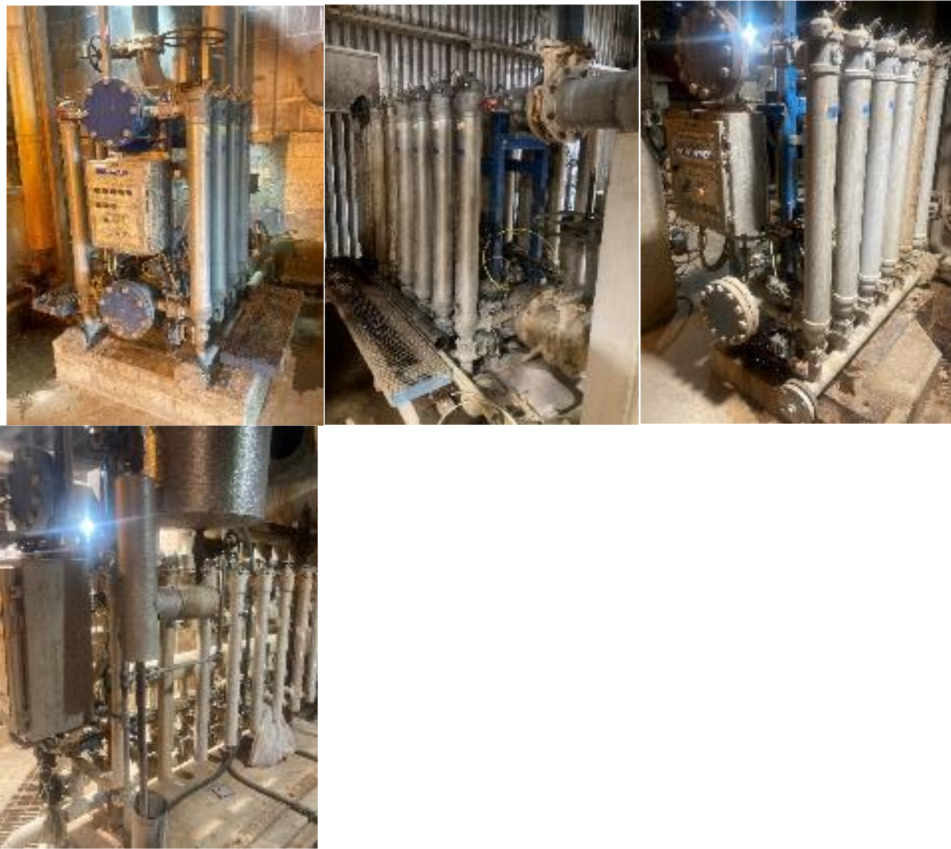
CLARIFIED WHITE WATER – HP

FRESH WATER – HP

AES, 5600S8A2 Internal Backwash Filter

AES, 5600S16A2 Internal Backwash Filter

AES, 6750C7A2 High Pressure Filter



WATER SYSTEM PUMPS

Top High Pressure Consistency Dilution Pump

Motor: POPE, D315M, 415V/132kW/4P

Pump: AHLSTROM APP53-100, 108.3l/s, 69.1M



Low Pressure Clarified White Water Pump

Motor: POPE, D315M, 415V/90kW/6P

Pump: AHLSTROM APP55-100, 76l/s, 55.8M



Base Ply Buffer Chest Pump

Motor: POPE, D315L, 415V/185kW/4P

Pump: AHLSTROM APP43-300, 233.3l/s, 12.3m

Base Ply Buffer Chest Agitator

Motor: POPE, D280M, 415V/55kW/6P

Agit: JONES 4522



Base Ply White Water Silo Pump

Motor: TOSHIBA, D400LY, 415V/315kW/8P

Pump: AHLSTROM APP61-600, 1150l/s, 13.3m



Base Ply Silo WW Recirc Pump

Motor: POPE, D200L, 415V/18.5kW/6P

Pump: AHLSTROM APP41-300, 166.7l/s, 7.5m



Base Ply Excess WW Chest Pump

Motor: POPE, D280M, 415V/55kW/6P

Pump: AHLSTROM APP52-400, 308.2l/s, 11.1m



Top Ply Low Pressure Consistency Dilution Pump
 Motor: POPE, D315S, 415V/75kW/6P
 Pump: AHLSTROM APP53-250, 170l/s, 26.6m



Top Ply Cleaner Dilution Supply
 Motor: POPE, D200L, 415V/18.5kW/6P
 Pump: AHLSTROM APP41-300, 158.3l/s, 8.1m



Base Ply HP Consistency Dilution Pump
 Motor: POPE, D315M, 415V/132kW/4P
 Pump: AHLSTROM APP53-100, 108.3l/s, 69.1m



Clear White Water Pump
 Motor: POPE, D315M, 415V/75kW/6P
 Pump: AHLSTROM APP51-300, 317l/s, 16.6m



Base Ply LP Consistency Dilution

Motor: POPE, D315M, 415V/110kW/6P

Pump: AHLSTROM APP53-250, 211.4l/s, 31m



Trim Dilution Pump

Motor: CMG, D180M, 415V/18.5kW/4P

Pump: AHLSTROM APP32-125, 41.7/s, 21.9m



Break Dilution Pump

Motor: POPE, D315M, 415V/132kW/6P

Pump: AHLSTROM APP52-400, 467.4l/s, 21.9m



Recycle Dilution Pump

Motor: POPE, D315M, 415V/75kW/8P

Pump: AHLSTROM APP52-400, 465/s, 10.5m



2nd Press Bottom Felt Separator Pump

Motor: POPE, D112M, 415V/4kW/4P

Pump: BUFFALO CRO 7011, 400 GPM, 32ft



Base Ply Flatbox Seal Tank Pump 816-30-140

Motor: POPE, D200L, 415V/15kW/8P

Pump: AHLSTROM APP43-250, 163.4l/s, 4.8m



1st Press Bottom Felt Separator Pump

Motor: Marathon, D112M, 415V/4kW/4P

Pump: Buffalo CRO 7011, 400 GPM, 32ft



High Pressure Fresh Water Shower Pump

Motor: POPE, D355LY, 415V/280kW/2P

G/Box: FALK, 305AH1-s, 1:1.224

Pump: Rotojet ROA111 4x3, 1800l/min, 330m



Low Pressure Fresh Water Shower Pump 816-30-141
 Motor: POPE, D315M, 415V/132kW/6P
 Pump: AHLSTROM APP55-200, 114.2l/s, 51.7m



High Pressure Fresh Water Shower Primer Pump 816-30-57
 Motor: POPE, D280M, 415V/37kW/4P
 Pump: AHLSTROM APP33-125



Fresh/Bore Water Booster Pumps x 3
 Motor: POPE, D160L, 415V/18.5kW/2P
 Pump: AJAX 2L, 120GPM 220ft



PM6 Machine Hydraulics Cooling Pump 816-30-381
 Motor: POPE, D160M, 415V/11kW/2P
 Pump: AHLSTROM APP22-32, 200l/min, 340kPa



ADDITIVE SYSTEMS

PAC

Starch

Starch Spray

Dilute Alum

ASA Size

Calcium Carbonate

Dilute Acid

Dye

Defoamer

Silica Retention Aid (Top Ply Only)

Barrier Chemical (Zenix)

HYDRAULIC AND LUBRICATION POWER UNITS



1st Press Hydraulics

Wet End Lube System



Wet End Hydraulics



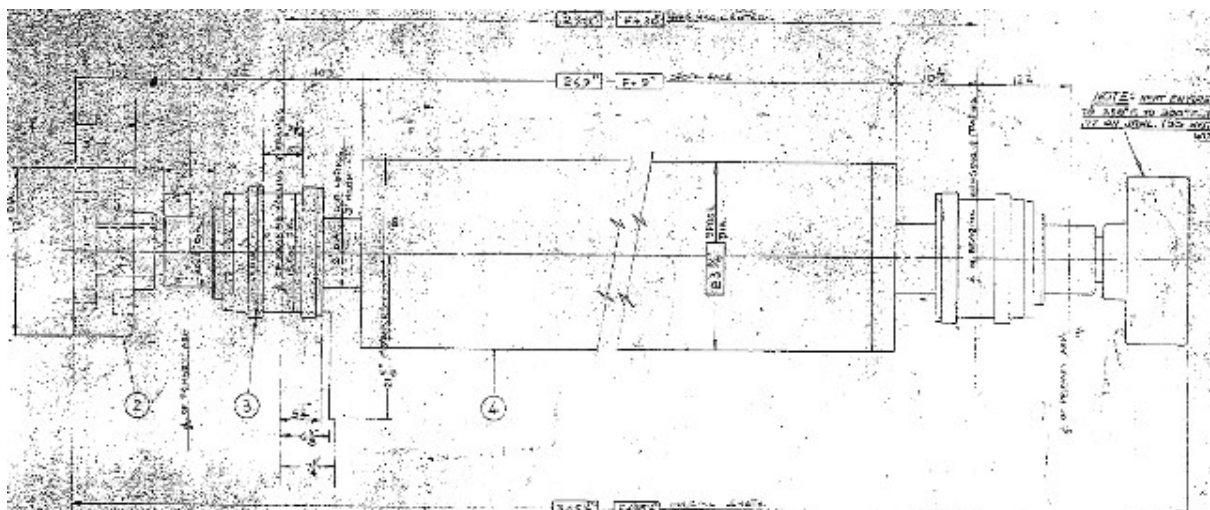
Press Hydraulics



Press Hydraulic Filter Bank

SPOOLS

Spools: 7 Functional, 3 require new covers



FREENESS ANALYSERS

Make: Valmet
Model: MAP Q SDX10
Sampler Number: 6



WIS and WMS

Make: PaperTech
Model: Webvision Break Detectors System – 21 Cameras
Web Inspector Defect System – 3 Cameras



SAFETY CAGING Access Lockout



Dryer Caging



Motors



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