



John Wilkie Paper Mill Services Ltd.

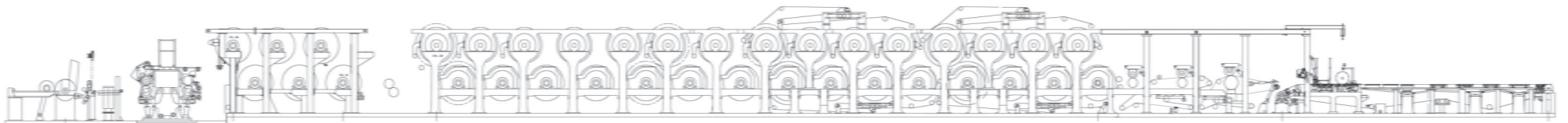
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PM1



History

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PM1 was built in 1983 and underwent a major, £14m upgrade in 2020 with a complete new wet end, press section, drives and control. This included the installation of a combination press section and former Ply.

The machine is capable to manufacture paper from 70 GSM to 110GSM double-ply and 100GSM single ply paper at speed range of 20m/min to 60m/min, drives and presses are rated up to 100m/m.

Brief Technical Overview

PM1 is a two-ply Cylinder mould vat machine with an adjustable (expanding/contracting) VAT and a Former. Dry Deckle width 2.2 to 2.65M. Machine output is cc15T/day with a max Main flow of 9000l/min.

Drives are located on the left side of the machine. The soleplate distance is 3430mm.

Forming fabric suction roll, electric tensioner, and guider.

1 roll combination vacuum press section with top and bottom felt.

Main drier bank 14 cylinders in 2 separate in drive sections with cog driven Cylinders. Drying section is equipped with an auto lube system. Vacuum assisted condensate removal system.

Size bath system equipped with duty and standby pump and filter system. Temperature controlled, hot water circulation, jacketed bath with size delivery and recirculation system.



Spooner air float driers linked to moisture controls with top and bottom side adjustments. Current typical Moisture range is 4-7%.



Paper guider into 2 soft nip calendar section.



Abb gauge


Drum reeler 1250mm with a max weight of 3T. Built in scale at the end of the line.


Sheehan rope feed from main drier to drum reeler with automated Ink marking system.


ID	Section	Assets	Description	Year	Supplier	Model	Photo
142	lubrication system	oil lubrication system	includes - bearing oil distribution pump - - bearing oil distribution tank - bearing oil distribution pump control console	2012	Denco	28 outlet oil lubricator unit (14 per side). Dropsa twin pump system, 150l pump station. complete with heater, cooler. siemens plc to control flow to 28 points, motors , heater, cooler, switches.	
143	lubrication system	grease lubrication system	includes - grease lube pump - - grease lube blocks - grease lube end of line pressure switches	2008	Bijur delimon	Bijur delimon bm-b automatic greasing station. dual line grease lubrication station serving pm1 machine type of lubricant : oils and greases up to and including nlg2 system type : dual line (electrical changeover)	

144	stock approach	blend chest	includes; - tank - agitator: 30kw motor, v-belt drive - pump: 7.5kw motor - level sensor - consistency transmitter - consistency control valve - flow transmitter - flow control valve - isolation valve: 50mm v100 valve - level transmitter: Cerabar m pmc51 0-280mbar	1983	tank - portals agitator - Lightnin consistency transmitter - btg	4250x3300 stainless steel round 40500ltr 2vs - 40 serial no:- 1136584 mek2000	
145	stock approach	cotton holding chest	includes; - tank - agitator: 30kw motor, v-belt drive - pump: 7.5kw motor - level sensor - consistency transmitter - consistency control valve - flow transmitter - flow control valve - isolation valve: 50mm v100 valve serial no:-sc324695 - level transmitter: cerabar m pmc51 0-280mbar	2020	Bellmer Sulzer Sulzer	stainless steel round slf 80 serial no:- 100212676	



146	stock approach	machine chest	includes - tank - agitator: 30kw motor, v-belt drive - pump: 7.5kw motor - level sensor - consistency transmitter - consistency control valve - flow transmitter - flow control valve - isolation valve: 50mm v100 valve serial no:-sc324695 - level transmitter: Cerabar m pmc51 0-280mbar	1983	Lightnin Serlachius	model 1vs-10 serial no:- l136571 dc 100/300/m serial no:- 17202	
147	stock approach	west linter chest	includes - agitator: 30kw motor, v-belt drive - pump: 7.5kw motor	1983	not available	concrete tank in drainer floor	



148	vat & stock approach	vat fan pump	includes - vat fan pump - vat pump air bleed valves	1983 2020	Serlachius	u350 serial no:-28386	
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149	vat & stock approach	cleaners	<p>includes;</p> <ul style="list-style-type: none"> - primary cleaner pump - primary cleaner cones - primary cleaner accepts pressure transmitter - secondary cleaner pump - secondary cleaner pump head tank - secondary cleaner pump head tank level transmitter - secondary cleaner pump head tank level control - secondary cleaner cones - tertiary cleaner pump - tertiary cleaner pump head tank - tertiary cleaner pump head tank level transmitter - tertiary cleaner pump head tank level control valve - tertiary cleaner cones tertiary cleaner purge valve - lightweight cleaner pump - lightweight cleaner pump head tank - lightweight cleaner pump head tank level transmitter - lightweight cleaner pump head tank level control valve - lightweight cleaner cones - lightweight cleaner purge valve - excess water tank - excess water pump - excess water tank level transmitter - excess water level control valve - screen supply tank - screen pump - flushing pump - dilution pump 	1983	<p>Voith centrifugal cleaner Endress & Hauser Endress & Hauser Voith Foxboro fisher/Rosemount centrifugal cleaner Voith</p> <p>centrifugal cleaner Voith</p> <p>Foxboro fisher/Rosemount</p> <p>Serlachius Foxboro Saunders</p> <p>Voith Haden Voith</p>	<p>I330 gIII 15/20 serial no:- 15434 ks 160/6e & 6r Cerabar pmp23 0-3bar Cerabar pmp23 0-3bar Iglv 12.5/15 serial no:- 15431 13fa 0-760mmwg u ball 3" ks 160/6e & 6r I250 gIII 12.5/15 serial no:-15432 13fa 0-760mmwg u ball 2" ks 160/6e & 6r valve stafsjo slide t mvu 2.1/2in. Iglv 12.5/15 serial no:- 15433 stainless steel 13fa 0-760mmwg u ball 2" cleaner. Reject mat size 200 valve butterfly kv fig990 3in. disc stainless steel de-80-50-200 serial no:- 28980 13fa 0-1150mmwg es63 2.5" stainless steel I250 gIII 10/12.5 serial no:-15429 type 50-250 serial no:- 6647010 I250 gIII 12.5/15 serial no:-15430</p>	
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150	vat & stock approach	screens	includes; - primary screen - secondary screen - tertiary screen - primary screen feed pressure transmitter - 3rd stage screen rejects purge valve: stafsjo slide t mvu 2.1/2in. - primary screen accepts pressure transmitter - primary screen accepts pressure control valve - primary screen rejects flow transmitter	1983	finckh finckh finckh endress & hauser fisher/rosemont abb	finckh model k100l serial no:-11 217 with screen 0.30 mm. slot width form a finckh vertical screen model o.serial no:-1188 with basket slot width 0.30mm form b vertical screen model o.serial no:- with basket (half screen) slot width 0.30mm.form b pmp23 0-3bar v150 200mm fev121 100mm	
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151	refining	refiner system	includes; - sunds refiner - drive motor & gearbox - plug motor and gearbox - pressure transmitter - temprature transmitter - power control loop - flushing valve - flow transmitter - flow control valve - feed forward flow transmitter	1983	sunds abb & flender sunds	sunds jylha jc-01 with lf fillings with flender redurex foot mounted no. 410.902.005-1-1 size sen 200 ratio : 2.24/1 nominal left hand assembly with abb m3bp 355 sma 4 200kw 1500rpm motor	
152	vat stock approach	vat	includes; - flexible vat hydraulic pump & system - vat headbox - headbox level control - vat manifold: 7500 lpm - flexible vat - vat control desk - vat controls - evener roll - mould spray kadant emo iii - vat curtain - vat level control - vat main flow control - vat main flow return control - vat mainflow transmitter - vat manifold return flow transmitter - vat manifold return flow control valve - vat overflow transmitter - vat level transmitter - vat level control valve - draught ph measurment - draught level transmitter - draught level control valve	1983	portals/warbu rton foxboro foxboro fisher/rosemount foxboro rosemount fisher/rosemount rosemount	parker pv046r1 klll n pws 2810 8004 4" v150 100mm 2810 3051l 0-1000mmwg v150 250mm sensor ph analytical model 871ph 3051l 0-1000mmwg v150 250mm	


					fisher/rosemont		
154	former stock approach	former fan pump	includes; - fan pump - fan pump thick stock transmitter - fan pump thickstock flow control valve - former excess water pump	1983	sulzer abb metso	app33 125 serial no - 100210679 fev121 80mm segment/v 65mm	
155	former silo	former silo	includes; - silo - silo level transmitter - silo control valve - silo isolation valve - silo drain valve - control isolation valve - temperature transmitter	1983	endress & hauser metso metso stafsjo or lohse endress & hauser	stainless steel m pmc51 0-136mbar segment/v 80mm segment/v 80mm slide valve with pneumatic operating cylinder tmt181a	



156	former screen	former screen	<p>includes;</p> <ul style="list-style-type: none"> - former screen - former screen drain valve - former screen rejects flow transmitter - former screen rejects flow control valve - former screen feed pressure transmitter - former screen accepts pressure transmitter - former screen accepts pressure control valve 	2020	<p>bellmer lohse abb metso endress & hauser endress & hauser metso</p>	<p>bellmer tvsk00+ slide valve with pneumatic operating cylinder abb kent fet121 50mm metso segment/v 25mm endress & hauser pmp23 0-3bar endress & hauser pmp23 0-3bar metso segment/v 100mm</p>	
157	former	former	<p>includes:</p> <ul style="list-style-type: none"> - former cylinder - former sprays: - former spray oscillator - former cylinder spray valve - former frame - former manifold - loading motor & jacks - platform - extraction legs - saveall tray - saveall tray level transmitter - saveall level control valve - manifold inlet pressure transmitter - manifold outlet pressure transmitter - manifold return flow transmitter - manifold return flow control valve - mainflow transmitter 	2020	<p>bellmer bellmer albany</p> <p>endress & hauser</p> <p>rosemount endress & hauser abb metso abb</p>	<p>bellmer 46l/s flow short former 2700mm 100m/min stainless steel 2019 emo iii spray oscillator</p> <p>lip gear maper 550038</p> <p>m pmc51 0-136mbar</p> <p>2090pg 0-1bar pmp23 0-1bar fev121 40mm segment/v 40mm fev121 100mm</p>	


158	fabric section	fabric section	<p>includes;</p> <ul style="list-style-type: none"> - couch roll, relief system & adjusters: 340mm diameter - x 4 fabric lead roll: 293mm diameter - pre-suction roll - 610mm diameter - fabric drive roll. - 445mm diameter - fabric stretch roll 293mm diameter - fabric guide roll 293mm diameter - fabric bow roll. - 165mm diameter. - pitting roll. - 214mm diameter. - couch lifting arm motor/gearbox - couch lifting arms & jacks - fabric suction box assembly and lifting motor/gearbox - fabric guider and bellows - wire dst doctor roll - wire dst doctor oscillator roll - wire roll wash spray - wire roll wash spray valve - edge trim jets and knock off shower sprays - cross cutter - sheet knock off shower spray and valve - fabric tension motor/gearbox - fabric tension system - fabric tension reader - fabric oscillating spray bar - fabric drive roll shower bar - fabric drive roll edge shower bars - fabric drive roll loading motor/gearbox - fabric drive roll loading jacks - fabric air feed-up system 	2020	bellmer	<p>rubber 200 p&j with 22312 cck/w33/c3 & 22209e/w33/c3 rubber 0-2 p&j with 22312 cck/w33/c3 & 22209e/w33/c3 rubber versatec 10 +3p&j with 23984 cck/w33/c3 & 23236/w33/c3 & 24028 cc/w33-c3 & 30208 diameter. rubber 15 +3 pkt n. p&j with 22224ek/w33/c3 rubber 0-2 p&j with 22312 cck/w33/c3 & 22209e/w33/c3 rubber 0-2 p&j with 22312 cck/w33/c3 & 22209e/w33/c3 rubber nbr-70-sha rubber 0-2 pkt n. p&j with 22312 cck/w33/c3 & 22209e/w33/c3</p>	
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159	press section	rolls	<p>includes;</p> <ul style="list-style-type: none"> - suction roll: 860 diameter - top felt bow roll: 160 diameter - x 2 top felt roll: 240 diameter - top felt guide roll: 240 diameter - top felt stretch roll: 240 diameter. - first press roll: 570 diameter - x 4 bottom felt roll: 240 diameter - bottom felt guide roll: 240 diameter - bottom felt stretch roll: 240 diameter - bottom felt bow roll: 160 diameter - second press roll: 600 diameter - hold down roll: 101 diameter. - driven bow roll: 150 diameter - x 2 driven lead roll: 240 diameter 	2020	bellmer	<p>quantum poly 10 +3p&j with 23984 cck/w33/c3 & 22336/w33/c3 & 24028 cc/w33-c3 & 30208 2343 + hard chrome 0,050</p> <p>rubber 0-2 pkt n. p&j with 22312 cck/w33/c3 & 22209e/w33/c3</p> <p>rubber 0-2 pkt n. p&j with 22312 cck/w33/c3 & 22209e/w33/c3</p> <p>rubber 0-2 pkt n. p&j with 22312 cck/w33/c3 & 22209e/w33/c3</p> <p>rubber 20zp1, 94+3 20+3 pkt n. p&j with 23236 cck/w33/c3</p> <p>rubber 0-2 pkt n. p&j with 22312 cck/w33/c3 & 22209e/w33/c3</p> <p>rubber 0-2 pkt n. p&j with 22312 cck/w33/c3 & 22209e/w33/c3</p>	

					<p>rubber 0-2 pkt. p&j with 22312 cck/w33/c3 & 22209e/w33/c3 2343 + hard chrome 0,050 keramik storoc stowe with 23236 cck/w33/c3</p> <p>rubber nbr 65 sha with 22312 cck/w33/c3 & 22209e/w33/c3</p>	 
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160	press section	pumps	includes; - low pressure shower pump - low pressure shower pump pressure transmitter - hp shower pump - hp shower pump filters - hp shower pump pressure transmitter - chemical cleaning rig - wet end pressure washer pump	1983	serlachius endress & hauser lowar albany endress & hauser endress & hauser	de 80-50-200 pmp23 0-10bar sv5508f450t serial no:- 102704231 2000 vhp showers complete basket assembly with 150 micron pmp23 0-10bar	
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161	press section	press section	<p>includes;</p> <ul style="list-style-type: none"> - framework - platforms - air paper feed system - top press felt stretch gear motor/gearbox - top press felt tension reader - top press felt stretch gear - x 2 felt roll doctor - x 2 felt roll doctor oscillator - x 2 press felt guiders - top press felt guider bellows - top felt hp cleaning shower valve - top felt hp cleaning oscillating spray bar - top felt hp cleaning oscillating spray oscillator - top felt lubrication & wash valve - top felt wash spray bar - top felt roll lubrication shower - top felt chemical cleaning shower - press roll lube valve - x 2 press roll loading bellows - x 2 press roll loading - press roll doctor air oscillator - press doctor shower - bottom felt guider controller - bottom felt stretch gear motor/gearbox - bottom felt stretch gear - bottom felt stretch gear reader - bottom felt hp cleaning shower valve - bottom felt oscillating spray bar - bottom felt oscillating spray bar oscillator - bottom felt lubrication shower & wash valve - bottom felt wash spray bar - saveall tray and heater pump 	1983	<p>thune</p> <p>albany worcester</p> <p>worcester</p>	<p>guider controller complete with chrome plated palm (sigurd sorum) drawing a4/6762b.kantkontroller s6-c7s-2v/888</p> <p>emo iii spray oscillator ball valve</p> <p>ball valve</p>	 
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162	couch pit	couch pit	includes; - pit - agitator - x 2 pump - outlet pressure transmitter - level transmitter - return flow transmitter - deluge shower flow transmitter - consistency control transmitter - consistency control valve - level control valve - drain valve - pump isolation valve - pump flush valve		portals sulzer endress & hauser rosemount abb abbvalmet mca metso metso metso metso stafsjo or lohse stafsjo or lohse stafsjo or lohse	stainless steel slf-80 serial no - 100212975 pmp23 0-2bar 3051t2 0-165mbar fet321 80mm fet321 50mm segment/v 25mm segment/v 50mm segment/v 50mm segment/v 40mm slide valve with pneumatic operating cylinder slide valve with pneumatic operating cylinder slide valve with pneumatic operating cylinder	
163		vacuum system	includes; - vacuum seal water booster pump - vacuum pump sealwater pressure transmitter - crystal water softener system - vacuum water tank - mould vacuum fan - mould vacuum operator - mould vacuum ducting - mould vacuum break - mould vacuum control - mould vacuum transmitter		endress & hauser	pmp23 0-2bar stainless steel hatemat tank stainless steel airco cbl-511-609 serial no:-5300239-001	



164	vat suction slice	vat suction slice fan	includes; - suction slice fan - suction slice Seperator - suction slice - suction slice vacuum transmitter - suction slice fan spray water valve		woodcock & wilson nash endress & hauser	30kw 3000rpm 66m3/hr 6931/5 -1-0 bar cerabar pmp23 -1-0bar	
165	Vacuum System	Suction Vacuum System	includes; - suction roll z1 & 3 Seperator - suction roll z1 & 3 vacuum pump - suction roll z1 & 3 vacuum pump seal water valve - suction roll z1 & 3 Seperator pump - suction roll z1 & 3 vacuum transmitter - suction roll z2 Seperator - suction roll z2 vacuum pump - suction roll z2 vacuum pump seal water valve - suction roll z2 Seperator pump - press suction roll air bleed valve - press suction roll vacuum isolation valve - suction roll z1 & 3 post Seperators - suction roll z2 post Seperators - suction roll z2 vacuum transmitter	2019	Nash Nash Nash Endress & Hauser Nash Nash Nash Nash Nash Endress & Hauser	STAINLESS STEEL T1316 904 M2/4 Serial No:- BS190584 1" KROGH Cerabar PMP23 -1-0bar STAINLESS STEEL T1317 4530200AK100 Serial No:- BS1901139001 1" KROGH STAINLESS STEEL STAINLESS STEEL Cerabar PMP23 -1-0bar	


							
166	Vacuum System	Felt Vacuum System	<p>includes;</p> <ul style="list-style-type: none"> - felt conditioning boxes vacuum pump - top felt conditioning box vacuum transmitter - bottom felt conditioning box vacuum transmitter - top felt condition box Seperator pump - bottom felt condition box Seperator pump - top felt condition box Seperator - bottom felt condition box Seperator - felt condition box post Seperators - top felt condition box no1 & 2 - bottom felt felt condition box no1 & 2 - top/bottom felt conditioning box vacuum pump spray water valve 	2019	<p>Nash Endress & Hauser</p> <p>Scan Pump Scan Pump Nash Nash Nash Bellmer Bellmer Bellmer</p>	<p>cl2001 pmp23 -1-0bar</p> <p>nb 65/40-26 serial no:- 7614 8803-10</p> <p>nb 65/40-26 serial no:- 7614 8803-11</p> <p>stainless steel stainless steel stainless steel stainless steel stainless steel</p>	



							
167	Vacuum System	Pre-Suction Roll Vacuum System	includes - pre suction roll vacuum pump - pre suction roll vacuum pump seal water valve - pre suction roll vacuum separator tank - pre suction roll separator pump - pre suction roll vacuum pump post separator - pre suction roll vacuum transmitter	2019	Nash Nash Nash Endress & Hauser Nash Nash	cl2002 45302002ak100 serial no:-bs1901140001 stainless steel t1312 1" krogh pmp23 -1-0bar stainless steel t1318 cl1001 45201001ak400 serial no:-bs1901135001	
168	Vacuum System	Pre-Former Vacuum System	includes - pre former inverted vacuum box separator - pre former inverted vacuum box vacuum pump - pre former inverted vacuum box vacuum pump seal water valve - pre former inverted vacuum box separator pump - pre former inverted vacuum box post separator - pre former inverted vacuum box - pre former inverted vacuum box transmitter	2019	Nash Nash Nash Bellmer Endress & Hauser	3" KROGH PMP23 -1-0bar	
169	Former inverted vacuum box		Includes; - former inverted vacuum box no1 separator - former inverted vacuum box no1	2019	nash nash	stainless steel t1311 cl401 serial no:-e13638	

		<ul style="list-style-type: none"> vacuum pump - former inverted vacuum box no1 transmitter - former inverted vacuum box no1 - former inverted vacuum box no1 Separator pump - former inverted vacuum box no1 post Separator - former inverted vacuum box no1 seal water - former inverted vacuum box no2 fan - former inverted vacuum box no2 Separator - former inverted vacuum box no2 - former inverted vacuum box no2 transmitter - former inverted vacuum box no2 seal water 		<ul style="list-style-type: none"> bellmer nash woodcock & wilson nash bellmer endress & hauser 	<ul style="list-style-type: none"> stainless steel 3" krogh 7.5kw 3000rpm 5m3/hr stainless steel ss bm6 stainless steel pmp23 -1-0bar 	 
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170	Drying Section	Dryer No 1 & No 2 Cylinders No 3 Cylinder No 4 Cylinder - No 14	Includes; - x 2 Cylinders: 1524mm Diameter ceramic coated - x 1 Cylinder: 1524mm Diameter ceramic coated - x 11 Cylinders: 1524mm Diameter - Drier Hood and Access Door - Drier FRAMEWORK - Drier Hood Heater Battery - Drier Hood Exhaust Fan - Drier Hood Make-up Fresh air Fan - x 2 Drier Section Sheehan Rope System - x 4 drying cylinder oscillating doctors - x 4 drying cylinder doctors - x 2 Drier Section Sheehan Rope System - Drier Control Desk - Steam Pressure Transmitter - Steam Pressure Control Valve - Steam Flow to Drier Transmitter	1953	Ed Warburton	- skf spherical roller bearings 23044.cck.w33 with sleeve h.3044 with 2.5in johnson nozzle steam trunnion - skf spherical roller bearings 23044.cck.w33 with sleeve h.3044 with 2.5in johnson nozzle steam trunnion - skf spherical roller bearings 23044.cck.w33 with sleeve h.3044 with 2.5in johnson nozzle steam trunnion sky comp .050in x 3in x 113in ref Id8826 & Id9780 (kf35a holder) electro mechanical gear motor unit with eccentric cam .37kw 900rpm' class h'flange mounted bcp or gec. 1.35amps ip54 peter	


						rayner type g/box gm2t 0.37kw 13rpm d80ad	
171	Drying Section	Dry Wire Rolls	Includes; - x 11 STEEL Bottom Dry Wire Rolls: 8.0" DIA - x 3 STEEL Bottom Dry Wire Stretch Roll: 8.5" DIA - x 1 Steel Bottom DRY WIRE GUIDE ROLL: 8.0" DIA - x 11 STEEL Top Dry Wire Rolls: 8.0" DIA - x 1 STEEL Top Dry Wire Stretch Roll: 8.0" DIA - x 1 Steel Top DRY WIRE GUIDE ROLL: 8.0" DIA - x 9 STEEL Bottom Dry Wire Rolls: 8" DIA - x 1 STEEL Bottom Dry Wire Stretch Roll: 8.0" DIA - x 1 Steel Bottom DRY WIRE GUIDE ROLL: 8.0" - x 9 STEEL Top Dry Wire Rolls: 8".0 DIA - x 1 STEEL Top Dry Wire Stretch Roll: 8.0" - x 1 Steel Top DRY WIRE GUIDE ROLL: 8.0" - x 1 Paper Lead Roll STEEL	Unknown	Thune	wire roll steel or glass epoxy cover with skf 6309/c3 & nu2212 bearings with 70x85x8 oil seal kantkontroller s6-c7s-2v/888	



			<ul style="list-style-type: none"> - x 2 Dry wire Section Bottom Guider - x 2 Dry wire section Top Guider - 1st Dy wire Transmitter 			
172	Drying Section	Condensate System	<p>includes;</p> <ul style="list-style-type: none"> - condensate tank - condensate tank level - condensate tank level control valve - x 2 condensate pumps - condensate vacuum pump - condensate vacuum pump post Seperator - condensate pit sub pump - condensate horizontal calorifier - condensate horizontal calorifier temperture control - condensate horizontal calorifier temperture control valve 	Unknown	<p>steel tank</p> <p>Nab 40/32-20 Serial No:- 3614 8142-11</p>	



173	Drying Section	Drying Section Air Vent System	includes; - drying hood heater battery - drying hood heater battery steam control - drying hood heater battery steam control valve - drier hood exhaust fan - fresh air fan - fresh air fan ducting - fresh air fan intake filters - drier hood exhaust fan ducting - drier pocket vents & ducting	unknown	Fisher	1676mm x 1066mm x 300mm. test pressure 400 p.s.i carbon steel with aluminium fins bs 4504 table 10 757eb 1.5" motor 22.0kw 1420rpm d180l foot motor 11.0kw(15hp) 1420rpm d160m	
174	Sizing	Size System	includes; - storage tank - agitator - level transmitter - size storage tank level control valve - size storage tank level local indicator - size tank low level alarm switch - dilution water tank- cooper - dilution water temperature control - size bath jacket header tank - size dilution water tank header tank - size kitchen vertical water clarifier - size kitchen horizontal calorifier - size bath hot water pump - size bath hydraulic lift - size bath - size circulating pump	various	Mono	stainless steel heated jacket f.g.m.1 geared propeller mixer/agitator no.105/g 0.75kw ip55 1440rpm vertical flange mounted 415v 3ph ser.no.23851 shaft 1.1/4in.diameter. s.s.x1730mm.long tube bundle for 2500 litre hot water calorifier tank drg.no. p.m. 015176 item19 heat transfer ser. no. hw34043.type/size sc2500l heat exchanger (complete) type-cf450(/)h ser no.hx 21330 pressure 150 p.s.i. pump unit 1 hp complete 3ph 415v hydraulic power-pack part no 3120003 for lift type eu	



			<ul style="list-style-type: none"> - size return pump - size bath temperature transmitter - size bath temperature control valve - size bath solids control loop dilution valve - refractometer cleaning pump - size circulating pump filters - size bath level transmitter - size bath level control valve 			<p>20.16 (2000kg)</p> <p>sab12h1b5/h1 sab12h1b5/h1103</p> <p>filter element albany st.st 20 mesh</p>	
175	Sizing	Size Section Rolls	<p>Includes;</p> <ul style="list-style-type: none"> - x 4 paper lead rolls - "s" wrap roll - whittler fixed bow roll - dip roll - top size press roll - bottom size press roll - size press spreader bar 	Unknown	Unknown	<p>156mm diameter steel with rhp pillow block mp40</p> <p>rubber with skf 511-609</p> <p>stainless steel 100mm diameter with skf 22209cck & h309 sleeve</p> <p>270mm diameter stainless steel with bearing 22209cckw64 (solid oil)</p> <p>micromate 2870mm x 460mm parallel at 0-5 p&j with skf 22226ck w33 bearings</p> <p>rubber 2870mm x 460mm with 0.030" camber at 30-35 p&j with skf 22226ck w33 bearings</p>	
176	Sizing	Size Control	<p>Includes;</p> <ul style="list-style-type: none"> - Control Desk - Size Bath Platforms and Steps - Size Bath Guards - Size Press Loading Bellows - Size Press Roll Nip Bar - Size dip Roll Jacks - Size Bath Wash Down Hose - Size bath Hood Extract Fan - Size Press Oscillating Doctor 	Unknown	Unknown	<p>bellows airide firestone no.21c</p> <p>jack.duff norton.te2625-200-b</p> <p>fan type :- 800 bda (hd) heavy duty as serial no.:- 2080/0288-01</p> <p>doctor blade carbon fibre joh clouth with modified flat profile retaining</p>	



						washers end loading to fit kf3fa holder no. ld8973	
177	Paper Drying	Air Float Dryer	<p>includes;</p> <ul style="list-style-type: none"> - air float dryer - a.f.d. control desk - a.f.d. lifting jack no 1 & 2 - a.f.d. exhaust fan - air float dryer exhaust fan control damper 1 & 2 - air float dryer steam flowmeter - a.f.d. zone fan no 1 & 2 <ul style="list-style-type: none"> - x 2 heater battery - x 2 temp transmitter - x 2 temp control valve - x 2 top & bottom pressure chambers - nozzles -top & bottom control dampers - fife guider hydraulic power pack & controls - fife guider carriage - x 2 web guider rolls 	1983	spooner drier	<p>28131 air heater battery.34000cfm, at 85c rise to 110c.steam 22psi test pressure 200 psig.size 119 5/8in. x 42 5/8in x 17ins.spooner</p> <p>fife hydraulic/pneumatic power pack p25 1f 22ta.model pr4-15</p> <p>erhardt & leimer sr.20.steering roller assembly - 2 aluminium path rollers. - 200 diameter. with inae40 npp fa106 radiameter/ insert ball bearing</p>	


178	Calender Section	Calendering	<p>includes;</p> <ul style="list-style-type: none"> - x 2 calender hydraulic pumps - oil tank - oil tank heater - x 3 whittler fixed bow roll - steel calender roll - x 2 swimming calender roll - x 2 paper lead roll - steel calender roll - 1st calender doctor - 1st doctor oscillator calender - 2nd calender doctor - 2nd calender doctor oscillator - calender section guards & nip guards - calender control desk - 1st calender loading cylinders - 2nd calender loading cylinders - calender section framework - calender sheehan rope system 	Unknown	Various	<p>commercial hydraulic pump type :-302-9310.038 serial no:-06927099</p> <p>steel tank hunt & moscrop</p> <p>grimwood n 3141 b 9kw 110 diameter hard chrome plated</p> <p>508 diameter.(calender) steel.with skf.spherical roller 22314.cck.w33.405.diameter.(calender) 150 diameter. steel 508 diameter.(calender) steel.with skf.spherical roller 22314.cck.w33. kfa35a winterburn loading doctor epoflex 1.5mmx3"x111"</p> <p>electro mechanical gear motor unit with eccentric cam .37kw 900rpm'class h'flange mounted bcp or gec. 1.35amps ip54 peter rayner type g/box gm2t 0.37kw 13rpm d80ad kfa35a winterburn loading doctor epoflex 1.5mmx3"x111"</p> <p>electro mechanical gear motor unit with eccentric cam .37kw 900rpm'class h'flange mounted bcp or gec. 1.35amps ip54 peter rayner type g/box gm2t 0.37kw 13rpm d80ad</p>	
179 SOLD	web measuring and monitoring	porosity measurement system	porosity measurement system measuring system incl. online measuring sensor and software application pc	approx 2010	Avatron Systems Oy	Micro-Perm	

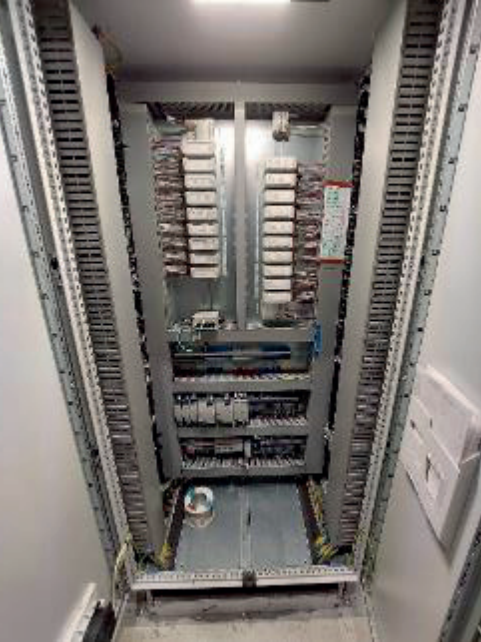
							 
180	web measuring and monitoring	security paper inspection system (spi)	Vision System for Thread monitoring bank not threads.	2020	Stemmer Imaging	Bespoke	


							
181	web measuring and monitoring	ink marker system	Ink Markers and mounting bars for marking paper webs	Unknown	Unknown	Unknown	

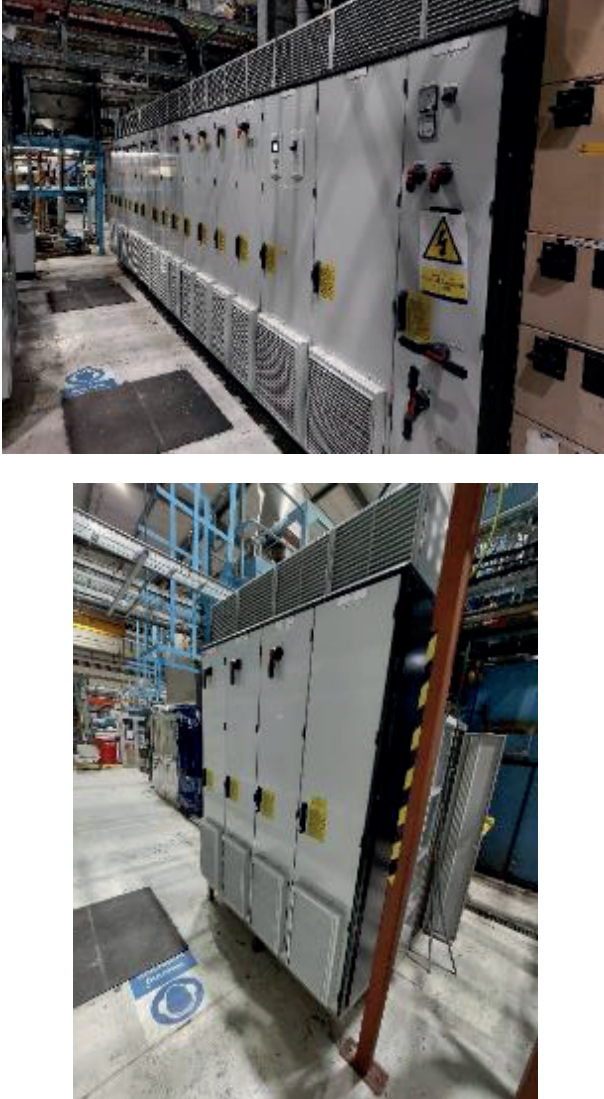
182	web measuring and monitoring	abb network platform	Network Platform Frame and Sensors Including Frame and Electronics Basis Weight Sensor Moisture Sensor Colour Sensor Optipak Sensor Caliper Sensor Ash Sensor	Upgraded 2020	abb	abb network platform frame and sensors	
183 SOLD	web measuring and monitoring	thread gear assembly bme	System for the insertion of threads, both powered and unpowered. As well as monitoring for thread break and bobbin runout. Complete with Ink marking system. Including Drives and PLC with HMI.	2020	konio	bespoke	
184	web measuring	d.r.u. abb control desk	Rittal Cabinet Enclosure for Dual Monitor Operator Workplace.	2020	abb	bespoke	



	and monitoring		Including 800xA workplace PC and managed Network Switch.				
185	Paper Reel up	Drum Reel Up	<ul style="list-style-type: none"> includes; - x 3 paper lead rolls - tension roll - whittler fixed bow roll - paper lead roll - whittler fixed bow roll - reel drum - mini bend bar - reel unloading system - drum reeler transfer carriage - splice knife & catcher - drum reel up main carriage - drum reel up control desk - drum reel up framework - drum reel up platforms & steps - tension roll control system - drum reel up sheehan rope system - drum reel up sheehan rope system tension system - core cutter & extractor 	Unknown	warburton	<ul style="list-style-type: none"> 150 diameter steel. with bearing pillow block rhp mp40 150 diameter steel. with bearing pillow block rhp mp40 110 diameter. steel. 240 diameter steel 130 diameter. steel. 24"diameter steel with skf.plummer block.sna.517.ta.22217.ck .+h317 free skf.plummer block.sna.517.ta.22217.ck .+h317.+ frb. 12.5150. 2 rings.fixed tidland mini bend bar cylinder.pneumatic rodless.origa parkland tc20 tube cutting machine 9813 	


186	silk system	Silk System	Includes; - x 2 Pumps - x 2 Silk Tanks - x 2 Silk Tank Agitators - Silk Band Headbox - MCC for Silks Pumps/Agitators	2013	Peristatic JOSHUA GREAVES	peristaltic pump spx40 440.1203.k28. joshua greaves fgm 1	
187	chemical dosing	OPTILUX SUPPLY	Includes; - Pump - Flow Transmitter - Control Valve - Pump local Starter	Various	Various	Includes; - Pump - Flow Transmitter - Control Valve - Pump local Starter	
188	Item removed						

189	security feature supply and storage	M-Feature System	Includes: - Mixing Tank - Mixing Tank Agitator - Holding Tank - Holding Tank Agitator - Pump - Control system	1996	lightnin lightnin mono	lightnin lq 75 lightnin lq 75 cac12h1r3/h1138	
190	dcs/controls	Controls	ABB 800xA DCS Control Panels. (4 off)	2020	ABB	800xA System V6.0 AC800M Processors S800 IO Modules.	
191	hoists & lifting gear	wet end crane (om178)	Includes; - Wet End Crane - Drum Reel Up Crane	Unknown	Unknown	Unknown	

							
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192	sectional drive system	abb multi-drive system and associate motors and indrives	<p>multidrive sectional drive system</p> <p>nominal running speed from 45 m/min to 100 m/min 400v ip54 system with abb acs880 drives</p> <p>supply section</p> <p>abb m3bp 160 mlc 4 11.9kw 1395rpm with acs880-107-0044a-3</p> <p>abb m3bp 160 mla 4 5kw 1776rpm with acs880-107-0018a-3</p> <p>abb m3bp 160 mlc 4 13kw 1700rpm with acs880-107-0044a-3</p> <p>abb m3bp 180 mlb 4 17kw 1712rpm with acs880-107-0044a-3</p> <p>abb m3bp 180 mlb 4 16kw 1722rpm with acs880-107-0044a-3</p> <p>abb m3bp 160 mlc 4 15kw 1813rpm with acs880-107-0044a-3</p> <p>gear motor by bellmer 2kw with acs880-107-008a0-3</p> <p>abb m3bp 160 mlb 4 7.7kw 1549rpm with acs880-107-0025a-3</p> <p>flender gearbox helical foot mounted z250a ratio 18.22:1 no.488 805 b</p> <p>abb m3bp 160 mlb 4 7.7kw 1549rpm with acs880-107-0025a-3</p> <p>flender gearbox helical foot mounted z250a ratio 18.22:1 no.488 803 b</p> <p>abb m3bp 160 mlb 4 7.7kw 1549rpm with acs880-107-0025a-3</p> <p>flender gearbox helical foot mounted d250a ratio 23.036:1</p> <p>abb m3bp 180 mlb 4 13.3kw 1443rpm with acs880-107-0044a-3</p> <p>flender gearbox helical foot mounted d250a ratio 23.036:1</p> <p>abb m3bp 180 mlb 4 13.3kw 1443rpm with acs880-107-0044a-3</p> <p>flender gearbox helical foot</p>	2020	ABB	Bespoke	
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			<p>mounted d250a ratio 23.036:1 abb m3bp 160 mlb 4 11kw 1202rpm with acs880-107-0025a-3 flender gearbox helical foot mounted d250a ratio 23.036:1 abb m3bp 280 smc 4 41.3kw 1500rpm with acs880-107 abb m3bp 280 smc 4 41.3kw 1500rpm with acs880-107 abb m3bp 355 sma 4 200kw 1500rpm with acs880-107 abb m3bp 280 smc 6 55kw 1000rpm with acs880-107 sectional drive control panel containing</p> <ul style="list-style-type: none"> - ac800m processor and localised s800 io - ac500 safet plc and localised io - jogging pendants - process panels for local drive control 				
193	MCC1 sub1640	Motor Control Centre	<p>Motor Control Centre for Pumps, Fans, Agitators and Supply Distribution Consisting of 2000A 415Vac Supply Section</p>	unknown	GEC	Bespoke	

194	MCC130 sub1652	mcc130	<p>Motor Control Centre for Pumps, Fans, Agitators and Supply Distribution</p> <p>Consisting of 2000A 415Vac Supply Section</p> <p>VSDs ABB ACS880</p> <p>DOL Starters ABB UMC100</p>	2020	Halcyon Drives	Bespoke	
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PM2



History

PM2 was built in 1988 and Upgraded in 2000 with combination press section and 3rd nip.

The machine is capable to manufacture paper from 70 GSM to 110GSM double-ply and 100GSM single ply paper at speed range of 20m/min to 100m/min.

Brief Technical Overview

PM2 is a two-ply Cylinder mould vat machine with an adjustable (expanding/contracting) VAT and a Former. Former ply is equipped with suction box transfer and Cross directional dilution system. Machine output is cc24T/day with a max Main flow of 12000l/min

Drives are located on the left side of the machine. The soleplate distance is 3430mm.

Forming fabric suction roll, pneumatic tensioner, and guider.

3 roll combination vacuum press section with top and bottom felt. Pm2 has additional 3rd plain nip press with top felt acting as a smoothing press.

Main drier bank 14 cylinders in 2 separate in drive sections with cog driven Cylinders. Drying section is equipped with an auto lube system.

Size press and bath with double storage tank dump system. Space under each dump tank is for 1 IBC with built in scale system.

Spooner air float driers linked to moisture controls with top and bottom side adjustments. Current typical Moisture range is 4-7%.

Paper guider into 2 soft nip calendar section.

Abb gauge

Drum Reeler 1.3M with a max weight of 3T. Built in scale at the end of the line.

Sheehan rope feed from main drier to Drum Reeler with automated Ink marking system.

KEY

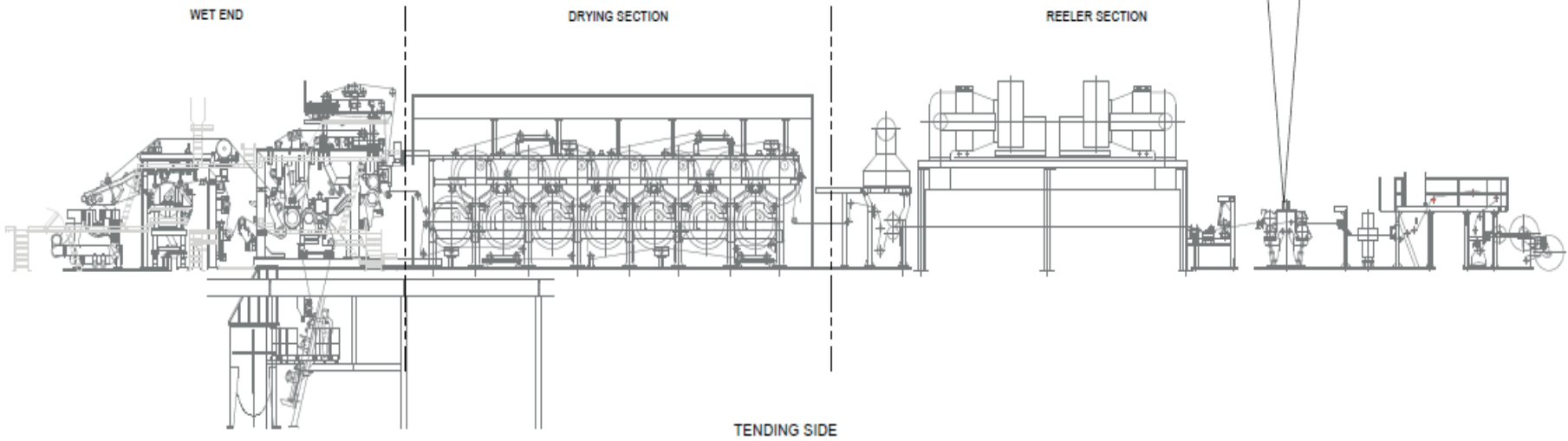
- GUARDING INSTALLED PARALLEL TO MACHINE CENTRALLINE
- GUARDING INSTALLED IN/ON MACHINE FRAME
- GUARDING INSTALLED PERPENDICULAR TO MACHINE CENTRALLINE OR ACROSS MACHINE
- GUARDING INSTALLED OVER DRIVE COUPLERS

GUARDING IDENTIFICATION KEY



- WETS**
- GUARD No.**
- PAPER MACHINE No.**
- PAPER MACHINE SECTION**
- WE = WET END**
- DS = DRYING SECTION**
- RE = REELER SECTION**



Rev	Description	Date	By
1	ISSUED	04/03/09	...
2	...	04/03/09	...
3	...	04/03/09	...

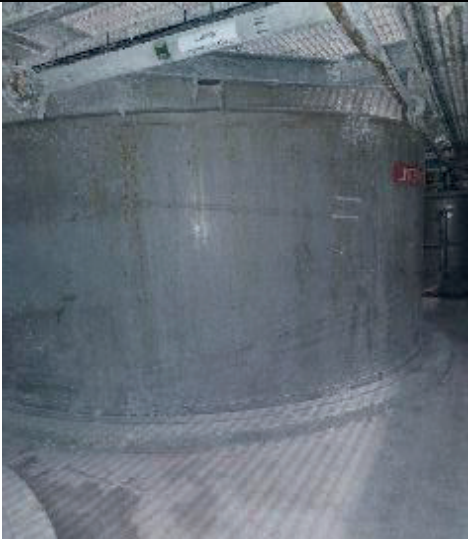

LAST No.'s USED	DATE
WE2083	25/06/09
DS2120	25/06/09
RS2042	20/03/09







ID	Section	Assets	Description	Year	Supplier	Model	Photo
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195	lubrication system	oil lubrication system	includes - bearing oil distribution pump - oil tank - pump - control console	1988	Centralube	Centralube dp60 Centralube 30uk	
196	lubrication system	grease lubrication system	includes - 3 x grease lube pumps: 1= delimon, 2=delimon, 3= delimon - 3 x control system - 2 x pressure switch	2008	Denco	Denco bmb01a02oc00	

197	Vat stock approach	Cotton/cumber chest	includes - tank - agitator: 30kw motor, v-belt drive - pump:3kw motor - isolation valve - consistency regulator - consistency control valve - flow control valve	1988	tank - portals pump - scan pump agitator - Lightnin	tank - stainless steel 4250 dia x 3150 pump - ba 150/80-26 agitator - 2vs-40 Lightnin agitator	
198	Vat stock approach	linter chest	includes - tank - agitator: 30kw motor, v-belt drive - pump: 3kw motor - isolation valve - consistency regulator - consistency control valve - flow control valve	1988	tank - portals pump - scan pump agitator - Lightnin	tank - stainless steel 4250 dia x 3150 pump - ba 150/80-26 agitator -	




							
199	vat stock approach	buffer chest	includes - tank - agitator: 4kw motor, v-belt drive - level control	1988	tank - portals agitator - Lightnin	tank - stainless steel 4250 dia x 3150 agitator -	



200	vat stock approach	blend chest	includes - tank - agitator: 18.5kw motor, v-belt drive - pump: 5.5kw motor - isolation valve - flow control valve - level control	1988	tank - portals pump - scan pump agitator - Lightnin	tank - stainless steel 4250 dia x 3150 pump - ba 150/80-26 agitator - 2vs-25	
201	vat stock approach	Water Dilution	Dilution pump	1988	scan pump	nb 150/125-32	
202	vat stock approach	Vat cleaner pumps	includes - x 4 vat cleaner pumps - cleaner assemblies	1988	4 x scan pump	1 x nb 150/125-40, 1 x nb 150/125-32, 1 x nb 125/100-40	



						& 1 x nb 100/80-32	
203	vat stock approach	vat screens	includes -x 2 primary screens - x1 secondary screen - x 1 tertiary screen - x 1 tertiary screen pump - x 1 tertiary screen tank and level control	1988	finckh " " scan pump portals	vertical screen model k80I with 0.3mm screen vertical screen model k42I with 0.3mm screen vertical screen model h 04 with 0.3mm screen fb 80/80-26	






204	vat stock approach	vat pump	includes - pump	1988	scan pump	ba 250/250-32	
205	vat stock approach	stock dilution water tank	includes - water tank and level control - pump	1988	tank: pump: scan pump	tank: pump: nb 100/65-20	


							
206	vat stock approach	excess backwater tank	includes - water tank - pump	1988	tank: pump: scan pump	tank: pump: nb 100/80-32	
207	vat stock approach	flushing pumps	includes x 2 pumps	1988	scan pumps	nb 80/50-26	


208	vat stock approach	vat headbox	includes: - vat headbox - headbox level control	1988	e.d. warburton/ portals		
209	vat stock approach	vat silo	includes - vat silo level control - vat silo	1988	e.d. warburton/ portals		
210	refining	refiner system	includes - suns refiner - drive motor - trim motor - gearbox - flow control valve - x 2 cooling fans	1988	sunds	jc01	


							
211	vat stock approach	vat	<p>includes</p> <ul style="list-style-type: none"> - flexible vat hydraulic pump & system - flexible vat - vat control desk - vat controls - evener roll - mould spray kadant emo iii - vat curtain - vat level control - vat main flow control - vat main flow return control 	1988	parker peter brotherhood/portals	pv046r1 kiii n pws	
212	former stock appr	former approach	<p>includes</p> <ul style="list-style-type: none"> - former vat pump - former dilution pump - former 1st stage primary cleaner pump - former 1st stage secondary cleaner pump - former 2nd stage cleaner pump - former secondary screen pump - former profile dilution pump - former secondary screen 	1988	scan pump " " " " " sulzer	nb 150/125-26 nb 100/80-32 nb 125/100-40 nb 125/100-32 nb 100/80-32 fb 80/80-26 app 33-100 vertical screen	



			<ul style="list-style-type: none"> - former cleaner assembly - former primary accepts level control - former primary rejects level control - former primary screen control - former secondary screen control - former silo - former secondary screen tank - former silo level control - former headbox level control - former thick stock flow control - actuator 		finckh "	model k60l with 0.25mm vertical screen model h 04 with 0.25mm	
213	former	former	<p>includes:</p> <ul style="list-style-type: none"> - former cylinder - former sprays: - former controls - former main flow return control - former lip - former dilution control 	1989	<p>peter brotherhoo d thermo fibertek u.k. ltd.</p> <p>tasowheel systems oy</p>	emo iii lda2010	


214	fabric section	fabric section	<p>includes</p> <ul style="list-style-type: none"> - couch lifting winch - couch roll: 400mm dia tannite 200 p & j - x 4 fabric roll: 303mm dia black diamond 0 -1 p & j - fabric/formax suction roll: - fabric drive roll: 465mm dia fabmate 15 p & j - fabric stretch roll: 303mm dia black diamond 0 -1 p & j - fabric guide roll: 303mm dia black diamond 0 -1 p & j - fabric bow roll: 150mm dia rubber sleeve - x 3 pitting rolls: 177.8mm dia fabmate 10 - 15 p & j - fabric releif roll: 177.8mm dia fabmate 10 - 15 p & j - formax/fabric guider: guider thune type:-175/250-80.bore with chrome plated palm (spade) (ref:58v100) c/w rod (ref:56v102) for thune formex guider controller - formax/fabric tension control system - edge trim jets - cross cutter - tail jet with deckle adjusters - x 3 fabric roll doctors - x 2 formax/fabric sprays 	1988	<p>flender e.d. warburton</p> <p>thune</p> <p>e.d. warburton</p> <p>the reiss engineering co. ltd. winterburn thermo fibertek u.k. ltd.</p>	<p>ccua 250 ratio 66.79:1 bearing skf 22312 ekc3, sleeve skf ahx 2312, bearing skf 22209e, locknut km11, tabwasher mb11 & withdraw nut km13</p> <p>guider thune type:-175/250- 80.bore</p> <p>sp0466-0 (91029a) kf35a 1.5mmx3x116" emo iii</p>	
215	press section	press section	<p>includes</p> <ul style="list-style-type: none"> - suction pick-up roll: 710mm - wet felt roll: 250mm dia black diamond 0 -1 p & j - wet felt roll : 250mm dia black diamond 0 -1 p & j - wet felt guide roll: 250mm dia black diamond 0 -1 p & j - x 4 wet felt roll: 250mm dia black diamond 0 -1 p & 	1988	<p>e.d. warburton e.d. warburton e.d. warburton e.d.</p>	<p>bearing skf 22312 ekc3, sleeve skf ahx 2312, bearing skf 22209e,</p>	


		<ul style="list-style-type: none"> j - bow roll: 135mm diameter - suction press roll: - x 2 wet felt stretch roll: 250mm dia black diamond 0 -1 p & j - press bow roll: 35mm diameter - press roll: 600mm diameter - adjustable hold down roll: 108mm diameter - adjustable lead roll: 203.2mm diameter - adjustable hold down roll: 102mm diameter - 3rd press bottom press roll : 609.6mm diameter - 3rd press top press roll: 558.8mm diameter - x 4 3rd press felt roll: 250mm dia black diamond 0 -1 p & j - 3rd press felt guide roll: 250mm dia black diamond 0 -1 p & j - 3rd press stretch roll: 250mm dia black diamond 0 -1 p & j - x 2 paper lead rolls: - sheenan rope system - 2nd press oscillating doctor - 3rd press bottom roll oscillating doctor - top felt roll doctor - high pressure pump - x 2 shower pumps - x 3 press felt guiders - press felt sprays - press felt hp cleaning shower - press suction roll hp cleaning shower - press felt spray 	<p>2000</p> <p>1988</p>	<p>warburton e.d. warburton e.d. warburton peter brotherhood</p> <p>lowara lowara thune</p> <p>thermo fibertek u.k. ltd.</p>	<p>locknut km11, tabwasher mb11 & withdraw nut km13</p> <p>bearing skf 22312 ekc3, sleeve skf ahx 2312, bearing skf 22209e, locknut km11, tabwasher mb11 & withdraw nut km13</p> <p>pump lowara low/sv6608f450 t 45kw sv 3003f55 thune guider c.i. 125/170-80 (special) spherical bore 175mm dia with controller complete with chrome plated palm</p>	
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						shcp2380 shcp2383 shcp2388	
216	hog pit	waste paper collection	includes: - pit - pit agitator - pit pump - pit consistency control - pit shower - pit level control - pit deluge flow control - pit flow control	1988 2018	sulzer scan pump	sif100 fb 80/80-26	


217	vacuum section	fabric suction roll vacuum pump	<p>includes:</p> <ul style="list-style-type: none"> - fabric suction roll vacuum pump - top & bottom felt vacuum box pump - bottom felt vacuum box preseperator pump - pick-up & holding zone vacuum pump - 2nd press zone vacuum pump. - 2nd press zone preseperator pump - 3rd press felt vacuum pump - former no 1 inverted vacuum box pump - former no 2 inverted vacuum box fan - fabric inverted vacuum box fan - mould vacuum fan - former mould vacuum fan - suction slice vacuum fan - pick-up zone preseperator pump - holding zone preseperator pump - suction slice - x 3 fabric inverted vacuum box - x 5 felt vacuum box - x 2 vacuum seal pumps, with level control - vacuum separator tank pump - x 2 vacuum seal water pit with level control and pumps 	1988	<p>nash nash nash nash nash nash nash nash nash nash</p> <p>stockbridge airco fan type.cblm65 0 fan no.w9569-1</p> <p>nash nash woodcock & wilson w9569-2</p> <p>scan pump</p>	<p>cl2002 cl3002 krogh 1.25" 904m2 cl3002 krogh 1.25" sc7 cl401</p> <p>motor 11kw da160ma cblm 650 30kw 2950rpm</p> <p>krogh 1.25" krogh 1.25" 30kw 2940rpm</p> <p>nb 150/125-26</p>	
218	drier section	dryer no 1 & 2 cylinders no 3 & 4 cylinders no 5 cylinder no 6 - no 14 cylinders	<p>includes</p> <ul style="list-style-type: none"> - drier hood and access door - drier framework - x 2 cylinders: 1523.4mm dia x 2870mm/3454mm teflon - x 2 cylinders: 1523.6mm dia x 2870mm/3454mm - x 1 cylinder: 1523.7mm dia x 2870mm/3454mm - x 9 cylinders: 1523.8mm dia x 2870mm/3454mm - steam control loop - drier hood heater battery - drier hood exhaust fan - drier hood make-up fresh air fan - x 2 drier section sheehan rope system - x 3 drying cylinder oscillating doctors - x 9 drying cylinder doctors 	installed 1988 but cylinders built in 1953	winterburn "	<p>skf 23044.cck.w33. c4.+h.3044 with steam trunnion nozzle complete. johnson 2.5in- 3600 sbpq</p> <p>kf35a</p>	


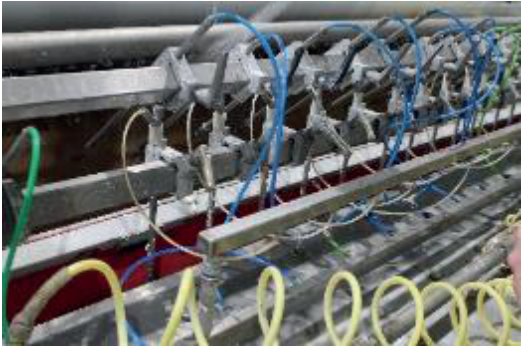
						0.05x3x113" "	
219	drier section	dry wire rolls	<p>includes</p> <ul style="list-style-type: none"> - x 10 steel bottom dry wire rolls: 8.5" dia x 3430/3125mm - x 3 steel bottom dry wire stretch roll: 8.5" dia x 3430/3125mm - x 1 steel bottom dry wire guide roll: 8.5" dia x 3430/3125mm - x 12 steel top dry wire rolls: 8.5" dia x 3430/3125mm - x 1 steel top dry wire stretch roll: 8.5" dia x 3430/3125mm - x 1 steel top dry wire guide roll: 8.5" dia x 3430/3125mm - x 9 steel bottom dry wire rolls: 8" dia x 3430/3125mm - x 1 steel bottom dry wire stretch roll: 8.5" dia x 3430/3125mm - x 1 steel bottom dry wire guide roll: 8.5" dia x 3430/3125mm - x 4 steel top dry wire rolls: 8".5 dia x 3430/3125mm - x 1 steel top dry wire stretch roll: 8.5" dia x 3430/3125mm - x 1 steel top dry wire guide roll: 8.5" dia x 3430/3125mm - x 1 paper lead roll steel + teflon sleeve: 203.22mm x3950/3350mm 	1988	e.d. warburton	skf 22311.cck ahx.2311 v ring seal v70s withdraw nut km12	

			<ul style="list-style-type: none"> - x 2 dry wire section bottom guider - x 2 dry wire section top guider 				
220	drier section	condensate	includes: <ul style="list-style-type: none"> - x 2 pumps - condensate vacuum pump - condensate level control - vertical condensate vessel - condensate horizontal heat exchanger 	1988	scan pump	nb 50/32-26	

221	sizing section	size storage tank	<p>includes</p> <ul style="list-style-type: none"> - storage tank - tank agitator - return pump - x 2 circulating pumps - size bath hot water pump - size bath lifting table - size bath - control desk - doctor shower pump - temperature control - density control: microprocessor refractometer with colour display - in-line refractometer horizontal calorifier - size bath hood extraction - oscillating doctor - x 2 lead rolls: chrome plate on copper + teflon sleeve 152mm dia x 3050/3620mm - top "s" wrap roll: alum 285mm dia x 2790/3610mm - whittler fixed bow roll: chrome 100mm dia - dip roll: 254.7mm dia stainless steel - top size press roll: microrok 0-1 prj 460mm dia x 2870/3850 - bottom size press roll: micromatt 20-25 prj 460mm dia x 2870/405 	1988	<p>mono mono</p> <p>grundfos</p> <p>electron machine co</p> <p>winterburn</p>	<p>sac12h1b5/h1 sac12h1b5/h1</p> <p>cr2-130</p> <p>mpr e-scan eos</p> <p>800 bda kf35a rhp allow block mp40</p> <p>skf 511-609 12209 cck with h316</p> <p>bearing 22209cckw64 (solid oil) skf 22226 cck and skf 3126 km25 locknut mb25 tab washer</p>	
222	air float dryer	paper drying	<p>includes:</p> <ul style="list-style-type: none"> - x 2 cooling fans - x 2 heater batteries - x 2 air make-up pre-heater batteries - x 2 temperature control - exhaust fan - canopy - lifting system - web fife guider - x 2 web guider roll 	1988	<p>erhardt & leimer sr.20.steerin g roller assy. aluminium</p>	<p>ccua 250 cavex</p> <p>ina rae 40 npp fa106</p>	



					path roller 2000 dia.		
223	calender	calender hydraulics	includes - x 3 pumps - x 2 calendar roll doctors - tank and oil heater - sheehan rope system - control desk - x 2 whittler fixed bow roll - swimming calender roll - x 2 calender steel roll	1988	pemco winterburn whittler hunt & moscrop drive roll hunt & moscrop drive roll	p1500-b096- axza07-1sp- sp12-1 kf35a 1.5mmx3x111" 110 diameter 508 diameter skf.spherical roller 22314.cck.w33	



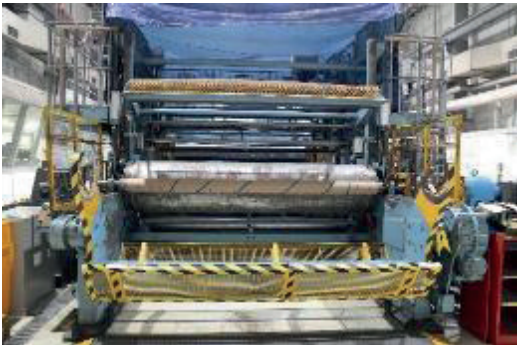
224	dry paper monitoring systems	measuring	<p>includes</p> <ul style="list-style-type: none"> - abb quality control system - operator qcs workstation - abb quality control system - aspect server - abb quality control system - frame & scanning gauge - abb quality control system - frame & sensors - blower fan & water softener system - abb quality control system - frame & sensors - basis weight sensor - abb quality control system - frame & sensors - calliper sensor - abb quality control system - frame & sensors - colour sensor - abb quality control system - frame & sensors - moisture sensor - abb quality control system - frame & sensors - ash sensor - abb quality control system - frame & sensors - optipak sensor -abb quality control system - qcs - controller -abb quality control system - cd weight (dilution) - controller -abb quality control system - cd weight (dilution) – io 	various years	abb	<p>system 800xa ver. 2.1 qcs system 800xa ver. +5.1 smart platform 1200</p> <p>stlp3 gt4230 cl4250 hemi + stlrx3 - 2c {unknown} ac450 ac800m s800 series io modules</p>	
226	dry paper monitoring systems	measuring	<p>thread gear assembly (bme) incl. thread bar assmbly for unpowered bobbins and control panel. integrates to the sahm powered thread unwind system. the primary functions of the bme system are to: a) monitor the insertion of security threads into</p>	2005	siemens automation solutions & portals	{bespoke}	


			<p>banknote paper.</p> <p>b) mark with ink any web on a reel of paper where thread is not being inserted while paper production is in progress.</p> <p>c) log the length of paper with missing thread by thread, web and reel for each part of each job.</p> <p>d) produce reports of missing thread by job, part, reel, web and thread.</p> <p>the bme system can only detect thread break and thread run out situations. It cannot detect if thread is being inserted the correct way round or not.</p>				 
227	dry paper monitoring systems	measuring	<p>Powered bobbin unwind unit yarn tensioned - 2 way control unit</p> <p>The bitensor is a yarn tension controlled unrolling unit which keeps the tension of the unrolling material constant for 36 off bobbins.</p> <p>including inverters and control panel.</p>	2005	sahm	bitensor	





228	dry paper monitoring systems	measuring	isis system vision system for inspection of security threads in a given area and inspection for correct orientation.	2008	perceptive solutions	{bespoke}	
229	Wet & dry paper monitoring system	measuring	S.P.I.system 2 stage (wet and dry) Thread inspection system with added square measurement and online sheet inspection capabilities. Added UV inspection capabilities on Wet end.	2018	stemmer imaging	{bespoke}	

							
230	dry paper monitoring systems	measuring	ink marker system receives signals from vision systems and then ink marks the associated paper web accordingly. incl. plc control panel , encoder, and ink marking equipment.	2018	concept controls / kc controls / portals	{bespoke}	
231	dry paper monitoring systems	measuring	wet end control desk	1988	schneider electric	foxboro i/a series miw - various components	

							
232	dry paper monitoring systems	measuring	dry end control desk	1988	schneider electric	foxboro i/a series miw - various components	
233	Drives & Indrives	paper slitting and reeling	<ul style="list-style-type: none"> includes - x 9 paper lead roll: steel 6" diameter - x 2 fixed bow roll: 1 x 110 diameter & 1 x 130 diameter - adjustable bow roll: 13 diameter - drum reel-up: hard chrome plated 24" dia - unload system - control desk - inspection lights - reeler splicing system - tension control system - slitting knife block and knives - reel weighing platform - core cutter and extractor 	1989	whittler e.d. warburton fender	<ul style="list-style-type: none"> rhp.pillow block.mp.40. skf.plummer block.sna.517.ta .22217.ck.+h31 7 free skf.plummer block.sna.517.ta .22217.ck.+h31 7.+ frb. 12.5150. 2 rings.fixed ccua 250 ratio 791:1 	

							
234	Drives & Indrives	machine drives	mould helper drive	1988	bull	225s 15kw	<i>See Pictures Below Drives and Indrives</i>
235	Drives & Indrives	machine drives	mould helper indrive	1988	flender	d181a ratio 66.79:1	
236	Drives & Indrives	machine drives	evener roll drive	unknown	a.c.brook	a.c.brook motor da90ls 2.2kw 2 pole 2820rpm	<i>See Pictures Below Drives and Indrives</i>
237	Drives & Indrives	machine drives	evener roll indrive	unknown	flender	pujol "i" series helical inline gearbox. ratio 28.26:1 c/w flange mounted a.c.brook motor	

						da90ls 2.2kw 2 pole 2820rpm	
238	Drives & Indrives	machine drives	former drive	1988	bull	180s 5kw	<i>See Pictures Below Drives and Indrives</i>
239	Drives & Indrives	machine drives	former indrive	1988	flender	d141a ratio 77.1:1	
240	Drives & Indrives	machine drives	fabric drive	1988	bull	180s 30kw	<i>See Pictures Below Drives and Indrives</i>
241	Drives & Indrives	machine drives	fabric indrive	1988	flender	d141a ratio 23.97:1	


							
242	Drives & Indrives	machine drives	suction pick-up roll drive	1988	bull	160s 20kw	<i>See Pictures Below Drives and Indrives</i>
243	Drives & Indrives	machine drives	suction pick-up roll indrive	1988	flender	d162a ratio 39.89:1	
244	Drives & Indrives	machine drives	press roll drive	1988	bull	160s 20kw	<i>See Pictures Below Drives and Indrives</i>
245	Drives & Indrives	machine drives	press roll indrive	1988	flender	d161a ratio 34.75:1	



See Pictures Below Drives and Indrives



See Pictures Below Drives and Indrives


246	Drives & Indrives	machine drives	1st drier drive	1988	bull	180l 5kw	<i>See Pictures Below Drives and Indrives</i>
247	Drives & Indrives	machine drives	1st drier indrive	1988	flender	d141a ratio 23.97:1	
248	Drives & Indrives	machine drives	2nd drier drive	1988	bull	180l 9kw	<i>See Pictures Below Drives and Indrives</i>
249	Drives & Indrives	machine drives	2nd drier indrive	1988	flender	d141a ratio 23.97:1	




See Pictures Below Drives and Indrives



							
250	Drives & Indrives	machine drives	size press drive	1988	bull	180l 9kw	<i>See Pictures Below Drives and Indrives</i>
251	Drives & Indrives	machine drives	size press indrive	1988	flender	d141a ratio 23.48:1	


252	Drives & Indrives	machine drives	3rd press drive	1988	bull	180s 5kw	<i>See Pictures Below Drives and Indrives</i>
253	Drives & Indrives	machine drives	3rd press indrive	1988	flender	d161a ratio 34.75:1	
	Drives & Indrives	machine drives	1st calender drive	1988	bull	225s 15kw	<i>See Pictures Below Drives and Indrives</i>
254	Drives & Indrives	machine drives	1st calender indrive	1988	flender	d141a ratio 30.64:1	



							
255	Drives & Indrives	machine drives	2nd calender drive	1988	bull	225s 15kw	<i>See Pictures Below Drives and Indrives</i>
256	Drives & Indrives	machine drives	2nd calender indrive	1988	flender	d141a ratio 30.64:1	
257	Drives & Indrives	machine drives	drum reeler drive	1988	bull	180l 9kw	<i>See Pictures Below Drives and Indrives</i>



258	Drives & Indrives	machine drives	drum reeler indrive	1988	flender	d141a ratio 40.8:1	
259	Drives & Indrives	machine drives	A.F.D zone fan 1 drive	1988	bull	180m 68kw	<i>See Pictures Below Drives and Indrives</i>
260	Drives & Indrives	machine drives	A.F.D. zone fan 2 drive	1988	bull	180m 68kw	<i>See Pictures Below Drives and Indrives</i>
261	Drives & Indrives	machine drives	refiner drive	1988	bull	250m 182kw	<i>See Pictures Below Drives and Indrives</i>
262	Drives & Indrives	machine drives	fabric suction roll drive	1988	bull	225s 15kw	<i>See Pictures Below Drives and Indrives</i>
263	Drives & Indrives	machine drives	fabric suction roll indrive	1988	flender	d162a ratio 33.86:1	<i>See Pictures Below Drives and Indrives</i>
264	Drives & Indrives	machine drives	vat pump drive	1988	alpak 11	da250 sa 55kw	<i>See Pictures Below Drives and Indrives</i>
265	Drives & Indrives	machine drives	suction slice fan drive	1988	brook hanson	wdf200lg 30kw	<i>See Pictures Below Drives and Indrives</i>
266	Drives & Indrives	machine drives	fabric suction roll drive top cooling fan	1988	no information	no information	<i>See Fabric Suction roll Indrive Photo</i>
267	drives & in drives	machine drives	fabric suction roll drive end cooling fan	1988	no information	no information	<i>See Fabric Suction roll Indrive Photo</i>
268	Drives & Indrives	machine drives	1st press top cooling fan	1988	no information	no information	<i>See 1st press Indrive Photo</i>
269	Drives & Indrives	machine drives	1st press end cooling fan	1988	no information	no information	<i>See 1st press Indrive Photo</i>
270	Drives & Indrives	machine drives	2nd press top cooling fan	1988	no information	no information	<i>See 2nd press Indrive Photo</i>
271	drives & indrives	machine drives	2nd press end cooling fan	1988	no information	no information	<i>See 2nd press Indrive Photo</i>
272	drives & indrives	machine drives	3rd press drive blower motor no 1	1988	no information	no information	<i>See 3rd press Indrive Photo</i>
273	drives & indrives	machine drives	3rd press drive blower motor no 2	1988	no information	no information	<i>See 3rd press Indrive Photo</i>





274	main feeder/switch	machine supply and controls	mcc28 1600a / 415v 110vac control voltage	1993	gec	various size starters
275	main feeder/switch	machine supply and controls	mcc59 415v / 1600a ip54 110vac control voltage	2000	sitchgear & instrumentation ltd	various size starters

276	main feeder/switch	machine supply and controls	mcc30 drive suite - 415 v 1250a 18 off vsd mcc for sectional drives including: - hmi (ssd ts810) - local hmi's (ts8006) - plc (s7-300) - drive controllers (eurotherm link rack I5300 series) - sectional drives (parked ssd 590I 110a+enc) - 1 off 594I 450a avfb - 1 off 690pe + 6055-link - 1 off 690pd + 6055-link	1999 + retrofit addons/upgrades in various years	parker ssd	see description	
277	main feeder/switch	machine supply and controls	emergency stops system for sectional drives incl. panel with hmi, logic solver and distributed io.	approx. 2010	Pilz	pmi 509 pnoz m1p	
278	chemical and additives	soft water	includes - soft water system - x 2 soft water pumps - soft water salt conveyor	unknown	Nalco Grundfos	cr 45-2-2	
279	chemical and additives	Nadavin supply	includes - tank - tank level control - pump	unknown	mono	saa 12h1r5	

							
280	chemical and additives	Reactopaque supply	includes - pump - controls	2000	mono	saa 12h1r5	
281	security feature supply and storage	silk system	includes - x 2 pumps - x 2 silk tanks - x 2 silk tank agitators - silk band headbox	unknown	peristaltic Joshua greaves	peristaltic pump spx40 440.1203.k28. Joshua greaves fgm 1	

282	security feature supply and storage	m-feature system	includes: - mixing tank - mixing tank agitator - holding tank - holding tank agitator - pump - control system	1996	Lightnin Lightnin mono	Lightnin Iq 75 Lightnin Iq 75 cac12h1r3/h113 8	
283	Item removed						
284	DCS/controls	Foxboro ia control	Foxboro ia computer system including: - operator and engineering workstations - controllers (fcp270ft & fcp270 types) - managed switches - un-managed switches - 100 series io modules - 200 series io modules	various	schneider electric	various types fp270ft & fcp270 i-sw16p hp type: j9663a 100 series fbms 200 series fbms	

285	hoists & lifting gear	lifting gear	includes - wet end crane om202 - drum reel-up crane - colour kitchen hoist	unknown	demac	10 tonne	
286	hoists & lifting gear	lifting gear	includes - reel lift and beams	2006	scm	8000kg goods lift no bc4326	

PM3



History

P3 was built in 1995.

The machine is capable to manufacture paper from 70 GSM to 110GSM double ply and 100GSM single ply paper at speed range of 20m/min to 100m/min.

Brief Technical Overview

PM3 is a two-ply Cylinder mould vat machine with an adjustable (expanding/contracting) VAT and a Former. Dry Deckle width 2.2 to 2.65M. Machine output is cc32T/day with a max Main flow of 10500l/min.

Drives are located on the right side of the machine. The soleplate distance is average 3430mm.

Forming fabric suction roll, pneumatic tensioner, and guider.

2 roll combination vacuum press section with top and bottom felt.

Main drier bank 14 cylinders in 2 separate in drive sections with cog driven Cylinders. Drying section is equipped with an auto lube system. Vacuum assisted condensate removal system. Pocket Ventilation.

Size bath system equipped with duty and standby pump and filter system. Temperature controlled, hot water circulation, jacketed bath with size delivery and recirculation system.

Spooner air float driers linked to moisture controls with top and bottom side adjustments. Current typical Moisture range is 4-7%.

Paper guider into 2 soft nip calendar section.

Abb gauge

Drum reeler 1250mm with a max weight of 3T. Built in scale at the end of the line.

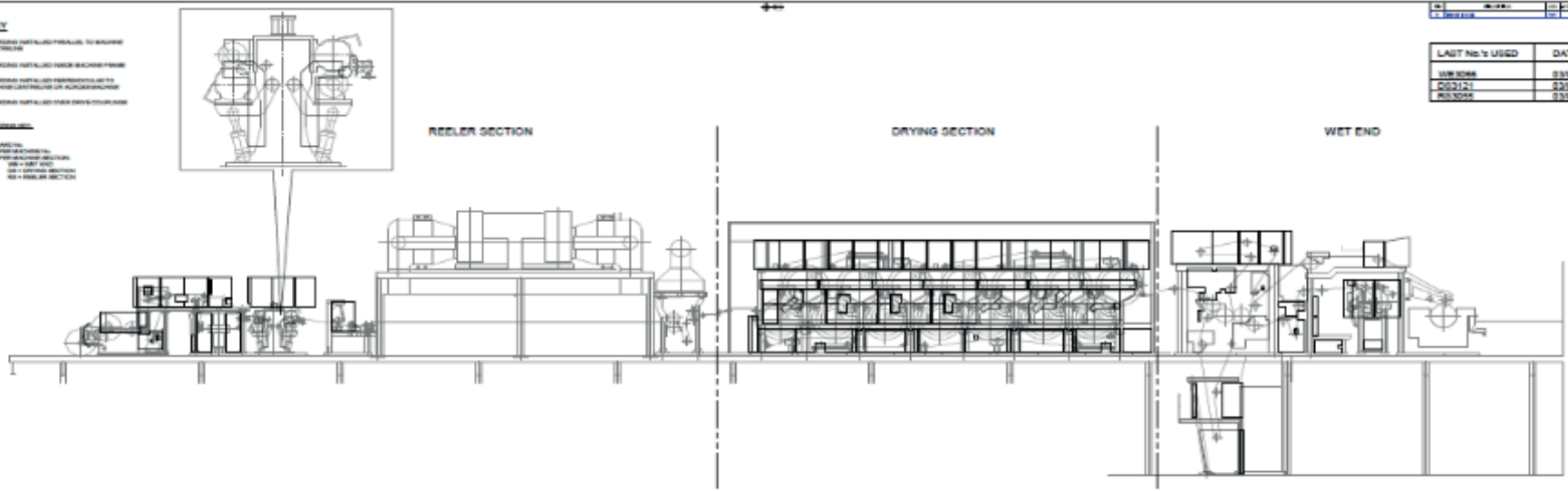
Sheehan rope feed from main drier to drum reeler with automated Ink marking system.

NO.	REVISED	BY	DATE
1	REVISED	BY	DATE

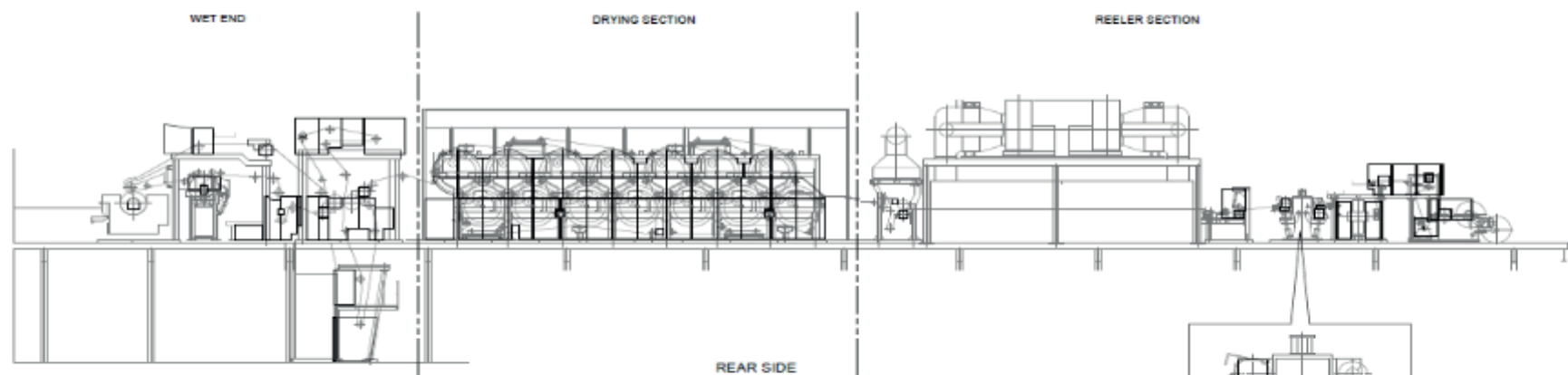
- KEY**
- BEARING NOT ALIGNED PERMANENT TO MACHINE COMPONENT
 - BEARING NOT ALIGNED PERMANENT TO MACHINE FRAME
 - BEARING NOT ALIGNED PERMANENTLY TO MACHINE FRAME OR MOUNTING FRAME
 - BEARING NOT ALIGNED PERMANENT TO FRAME

LAST No.'s USED	DATE
WR 1006	03/02/08
CG2121	03/02/08
PL23004	03/02/08

- LEGEND**
- BEARING
 - BEARING HOUSING
 - MOTOR MOUNTING SECTION
 - SET + SUPPORT SECTION
 - NO. 2 MOUNTING SECTION





TENDING SIDE




REAR SIDE


	DE LA RUE - OVERTON MILL 16-181-0100	17921
	16-181-0100	17921



ID	Section	Assets	Description	Year	Supplier	Model	Photo
287	Lubrication System	Oil System	includes - bearing oil distribution pump - - bearing oil distribution tank - bearing oil distribution pump control console	1995	denco		
288	Lubrication System	Grease System	includes - 2 x grease lube pump - grease lube blocks - grease lube end of line pressure switchies - 2 x grease lubrication control console - 2 x grease lubrication system top up pump	1995	bijur delimon	bm-b 01a02oc00 serial no:-0000047850 400bar lubrication system lumatic	
289	Stock Storage	STOCK CHEST	includes - tank - agitator: 11kw motor, v-belt drive - pump: 4kw motor - level sensor - consistency transmitter - consistency control valve - flow transmitter - flow control valve - isolation valve - level transmitter	1995	parsons skillforce scaba scanpump btg	stainless steel 4250 dia x 2350 h 30553litres scaba 60srkt-m1 314296e serial no - 94.3039-02-01 scanpump ba 150/150-26 serial no - 4614.1098-10 mek2300	





290	Stoack Storage	BLEND CHEST	Includes - Tank - Agitator: 7.5KW Motor, V-Belt Drive - Pump: 7.5KW Motor - Level Sensor - Isolation Valve - Level Transmitter	1995	Parsons Skillforce Scaba Scanpump	stainless steel 4250 DIA x 2350 h 30553litres SCABA 60SRKT-M1 314296E Serial No - 94.3039-01-01 Scanpump BA 150/80-26 Serial No - 94614.1098-13



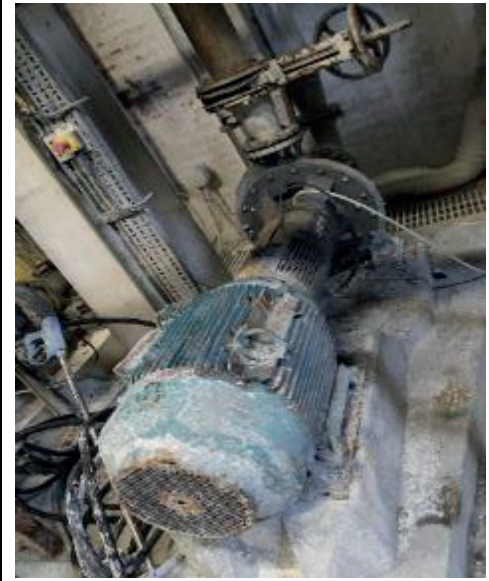
291	Stock Storage	BUFFER CHEST	<p>Includes:</p> <ul style="list-style-type: none"> - Tank - Agitator: 7.5KW Motor, V-Belt Drive - Pump: 7.5KW Motor - Consistency Transmitter - Consistency Control Valve - Consistency Regulator - Flow Transmitter - Flow Control Valve - Isolation Valve - Level Transmitter - Pressure 	1995	Parsons Skillforce SCABA Scanpump BTG	<p>STAINLESS STEEL 4250 DIA x 2350 h 30553litres SCABA 60SRKT-M1 314296E Serial No - 94.3039-02-01 Scanpump FB 80/80-26 Serial No - 96141098-14 MEK2300</p>	
292	stock approach	linter supply	<p>Includes:</p> <ul style="list-style-type: none"> -Pump -Flow transmitter -Flow Meter -Flow Control Valve - Consistency Transmitter - Consistency Control Valve 	1995	Scanpump BTG	<p>Scanpump BA 150/80-32 Serial No - 4614.1098-11 2300</p>	
293	stock approach	pm3 broke supply	<p>Includes:</p> <ul style="list-style-type: none"> -2x Flow transmitter -2x Flow Meter -2x Flow Control Valve 	1995			




							
294	stock approach	pm3 specials supply	Includes: -Pump -Flow Meter -Flow Transmitter -Flow Control Valve - Consistency Transmitter	1995	Scanpump BTG	Scanpump BA 150/80-32 Serial No - 4614.1098-11 2300	


295	VAT	Silo	Includes: -Silo -Flow Meter -Level Transmitter -Silo Platform -Temperature probe -Temperature Control Valve	1995	Parsons Skillforce	Stainless Steel	
296	Refining System	Refiner	Includes: -Refiner -Trim Loading Gearbox -Consistency Control Valve -Consistency Transmitter -Flow transmitter -Recirculation Flow Transmitter -Flow Transmitter -Flow Meter -Pressure Control Valve -Inlet Pressure Transmitter -Outlet Pressure Transmitter	1995	Sunds BTG	Sunds JYLHA JC-01 with LF FILLINGS MEK2300	

297	pm3 vat primary cleaner "a"	cleaner voith	Includes: -Pump -Celaner Cone Platform -Cleaner Cones -Inlet pressure Transmitter -Outlet pressure Transmitter	1995	Scanpump	Scanpump NB 200/150-40 Serial No - 9614 1098-15	
298	pm3 vat primary cleaner "b"	cleaner voith	Includes: -Pump -Celaner Cone Platform -Cleaner Cones -Inlet pressure Transmitter -Outlet pressure Transmitter -Tank Level Transmitter -2xTank Level Control valve -Tank Supply Pressure -Accepts Pressure	1995	Scanpump	Scanpump NB 200/150-40 Serial No - 9614  109 8-16	
299	pm3 vat secondary cleaner	cleaner voith	Includes: -Pump -Celaner Cone Platform -Cleaner Cones -Cleaner Tank -Inlet pressure Transmitter -Outlet pressure Transmitter -Tank Level Transmitter -2xTank Level Control valve -Tank Supply Pressure -Accepts Pressure	1995	Scanpump	Scanpump NB 125/100-40 Serial No - 9614 1098-17	

300	pm3 vat tertiary cleaner	cleaner voith	Includes: -Pump -Celaner Cone Platform -Cleaner Cones -Cleaner Tank -Inlet pressure Transmitter -Outlet pressure Transmitter -Tank Level Transmitter -2xTank Level Control valve -Tank Supply Pressure -Accepts Pressure -Cleaner Rejectomat	1995	Scanpump	Scanpump BA 150/80-32 Serial No - 9614 1098-18
301	pm3 vat dilution pump	pm3 vat dilution pump	Includes: -Pump	1995	Scanpump	Scanpump NB 150/125-32 Serial No -9614 1098-20
302	pm3 vat fan pump	pm3 vat fan pump	Includes: -Fan Pump -Thinkstock PH -Flow Meter -Flow Transmitter	1995	Scanpump	Scanpump BA 250/250-32 Serial No -9614 1098-21v





							
303	pm3 vat primary screen "a"	pm3 vat primary screen "a"	Includes: -Screen -Accepts Flow Transmitter -Reject Flow Transmitter Pressure Control Valve -Supply Pressure -Accepts Pressure	1995	Finckh	FINCKH HICO 111 HS serial no -240 with Basket 0.20mm slots	
304	pm3 vat primary screen "b"	pm3 vat primary screen "b"	Includes: -Screen -Accepts Flow Transmitter -Reject Flow Transmitter -Pressure Control Valve -Supply Pressure -Accepts Pressure	1995	Finckh	FINCKH HICO 111 HS serial no -241 with Basket 0.20mm slots	

305	pm3 vat secondary screen	pm3 vat secondary screen	Includes: -Screen -Accepts Flow Transmitter -Reject Flow Transmitter -Pressure Control Valve -Supply Pressure -Accepts Pressure -Tank -Pump -Tank Level Transmitter -Rejects Flow Meter	1995	Finckh Parsons Skillforce Scanpump	FINCKH HICO 1 HS serial no -242 with Basket 0.20mm slots Stainless Steel Scanpump NB 150/150-32SWD Serial No - 9614 1098-22	
306	pm3 vat tertiary screen		Includes: -Screen -Accepts Flow Transmitter -Reject Flow Transmitter -Pressure Control Valve -Supply Pressure -Accepts Pressure -Tank -Pump -Tank Level Transmitter -Rejects Flow Meter	1995	Finckh Parsons Skillforce Scanpump	FINCKH HICO 1 EHS serial no -243 with Basket 0.20mm slots Stainless Steel Scanpump BA 150/80-32SWD Serial No - 9614 1098-23	


307	pm3 backwater tank		Includes: -Pump -Tank -Tank Level -Level Control Valve	1995	Scanpump	Scanpump NB 100/65-32 Serial No - 9614 1098-31





308	pm3 vat headbox		Includes: -VAT Headbox -Headbox Level -Level Control Valve -Flow Control Valve -Flow Transmitter -Flow Meter	1995	Warburton	Stainless Steel	
309	pm3 dilution		Includes: -Pump -Tank -Tank Level -2xLevel Control Valve -Pressure Transmitter -Pressure Control Valve	1995	Scanpump	Scanpump NB 100/65-26 Serial No - 9614 1098-32	

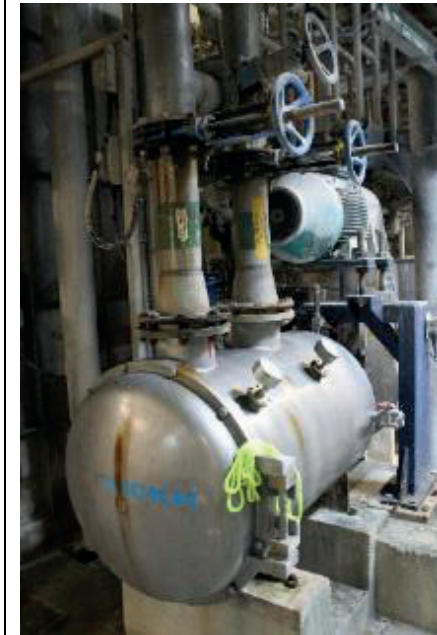
310	pm3 flexible vat		<p>Includes:</p> <ul style="list-style-type: none"> -Evener Roll -Hydraulic Pump -Flexible VAT -Hydraulic Tank -Control Desk -VAT Controls -VAT Manifold -VAT Curtain -VAT Baffle -VAT Platforms 	1995	Parker Warburton	<p>evener roll 127mm. dia x 2854mm face length, with holes. tube wall thickness 10mm. stainless steel 316l with vesconite hilube bearings parker pv046r1 kiii n pws</p>
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311	PM3 VAT CONTROL SYSTEMS		Includes: -Mainflow Transmitter -Mainflow Flow Meter -Recirculation Flow Transmitter -Recirculation Flow Meter -Recirculation Control Valve -Recirculation Flow Control Valve -Level Transmitter -Level Control Valve -Overflow Meter -Flow Transmitter -Flow Meter -Level Transmitter -Level Control Valve -Thickstock PH Measurement	1995	ROSEMOU NT	ROSEMOUNT 54pH /ORP04 54pH /ORP04	
312	PM3 MOULD SPRAY		Includes: -Mould Spray Bar -Spray Oscillator	2010			
314	PM3 FORMER VAT/FAN PUMP		Includes: -Pump	1995	Scanpump	Scanpump NB 125/100-26 Serial No - 9614 1098-28	
315	PM3 FORMER DILUTION		Includes: -Pump	1995	Scanpump	Scanpump NB 125/100-26 Serial No - 9614 1098-28	



316	PM3 FORMER PRIMARY "A" CLEANER		Includes: -Pump -Cleaner Cones -Supply Pressure -Accepts Pressure	1995	Scanpump	Scanpump NB 125/100-40 Serial No - 9614 1098-24	
317	PM3 FORMER PRIMARY "B" CLEANER		Includes: -Pump -Cleaner Cones -Supply Pressure -Accepts Pressure -Supply Tank -Tank Level	1995	Scanpump	Scanpump NB 125/100-40 Serial No -9614 1098-25	

318	PM3 FORMER SECONDARY CLEANER		Includes: -Pump -Cleaner Cones -Supply Pressure -Accepts Pressure -Supply Tank -Supply Tank Level -Tank Levels -Cleaner Rejectomat	1995	Scanpump	Scanpump NB 100/65-32 Serial No -9614 1098-26
319	PM3 FORMER PRIMARY SCREEN		Includes: -Primary Screen -Rejects Flow Transmitter -Rejects Flow Meter -Accepts Control Valve -Screen Accept Pressure Transmitter -Screen Supply Pressure Transmitter	1995	Finckh	FINCKH HICO 11 HS serial no -244 with Basket 0.15mm slots



320	PM3 FORMER SECONDARY SCREEN		Includes: -Secondary Screen -Supply Tank -Tank Platform -Tank Level -Tank Level Control Valve -Pump -Screen Supply Flowmeter -Supply Pressure Transmitter -Accepts Pressure Transmitter	1995	Finckh Parsons Skillforce Scanpump	FINCKH HICO 1 EHS serial no -245 with Basket 0.15mm slots Stainless Steel Scanpump BA 150/80-32 Serial No - 4614.1098-30	
321	PM3 FORMER PROFILE DILUTION		Includes: -Pump	2003	Sulzer	APP 33-100	
322	PM3 FORMER SILO		Includes: -Former Silo -Platform -Level Transmitter -Temperature Transmitter -Temperature Control Valve -Level Control Valve	1995	Parsons Skillforce	Stainless Steel	

							
323	PM3 FORMER HEADBOX		Includes: -Former Headbox -Level Control -Flow Transmitter -Flow Meter -Flow Control Valve	1995	Parsons Skillforce	Stainless Steel	

							
324	PM3 FORMER		Includes: -Former Cylinder -Former -Cylinder Spray Bar -Former Framework -Former Manifold -Former Loading System -Platform -Extraction System -Saveall Tray -Former Lip -Extraction Console	1995	Warburton		

325	PM3 FORMER CONTROLS		<p>Includes:</p> <ul style="list-style-type: none"> -Inlet Manifold Pressure Transmitter -Saveall Tray -Flow Transmitter -Flow Meter -Control Valve -Recirculation Transmitter -Recirculation Flow Meter -Recirculation Control Valve -Thinstock PH -PH control valve -Dilution Manifold Pressure Transmitter -Dilution Manifold Pressure Control Valve -44x Dilution Actuator 	1995	BTG ROSEMOUNT NT	VBW 10B 50mm ROSEMOUNT 54pH /ORP04
326	PM3 FABRIC SECTION ROLLS		<p>Includes:</p> <ul style="list-style-type: none"> -Couch Roll -Suction Roll -Drive Roll -Lead Roll -Lead Roll -Lead Roll -Tension Roll -Guide Roll -Lead Roll -Bow Roll -Pitting Roll x3 -Fabric Relief Roll 	1995	VAAHTO	<p>VAAHTO FABRIC COUCH ROLL - 435 DIA. With SKF 22312 EK C3 + SKF 22209E VAAHTO SUCTION ROLL - 640 DIA. With FAG 23984, FAG 23236B, FAG 24028 S VAAHTO FABRIC DRIVE ROLL with SKF 22224 EK C3 & 2224 SLEEVE VAAHTO FABRIC LEADING ROLL - 224 DIA. with SKF 22312 EK C3 + SKF 22209E VAAHTO WIRE LEADING ROLL - 303 DIA with SKF 22312 EK C3 + SKF 22209 E VAAHTO FABRIC LEAD ROLL 303 DIA with SKF 22312 EK C3 + SKF 22209 E VAAHTO FABRIC TENSION ROLL 303 DIA with SKF 22312 EK C3 + SKF 22209 E VAAHTO FABRIC GUIDE ROLL 303 DIA with SKF 22312 EK C3 + SKF 22209 E VAAHTO FABRIC LEAD ROLL 303 DIA with SKF 22312 EK C3 + SKF 22209 E VAAHTO BOW ROLL - 165 DIA. VAAHTO PITTING ROLL - 224 DIA. With NEEDLE BEARING SKF 22312 + SKF 22209E VAAHTO PITTING ROLL - 224 DIA. With NEEDLE BEARING SKF 22312 + SKF 22209E</p>




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327	PM3 FABRIC SECTION		<p>Includes:</p> <ul style="list-style-type: none"> -Couch Lifting Winch Pulleys&Ropes -Couch Lifting Winch Couch Arms -Couch Roll Adjusters -Couch Roll Relief System -Saveall Trays -Pitting Roll Adjusters -Pitting Roll Adjusters -Pitting Roll Adjusters -Former Couch Lifting System -Fabric Pick Up arm -Fabric Guider -Guider Bellows - Guards -Framework -Platform and Steps -Control Desk -Fabric Tension Control System -Fabric Tension Control Drive -Oscillation Spray -Spray Bar -Edge trim jets -Cross Cutter -Fabric Roll Doctor -Fabric Roll Oscillating Doctor -Oscillating Doctor Oscilator -Oscillating Doctor Spray Bar -Fabric Suction Roll Oscillating Spray 	1995	<p>Flender Vaahto</p> <p>Thune Thune</p>	<p>flender ccua 250 697:1</p> <p>THUNE GUIDER CONTROLLER COMPLETE WITH CHROME PLATED PALM (SIGURD SORUM) DRAWING A4/6762B.KANTKONTROLLER S6-C7S-2V/888 GUIDER UNIT THUNE TYPE 200/220-80.</p>
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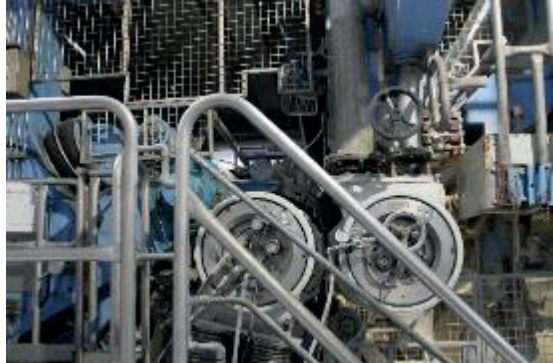


328			<p>Includes: -Oscillating Doctor Spray Bar -Fabric Suction Roll Oscillating Spray</p>	1995	Vaahto		
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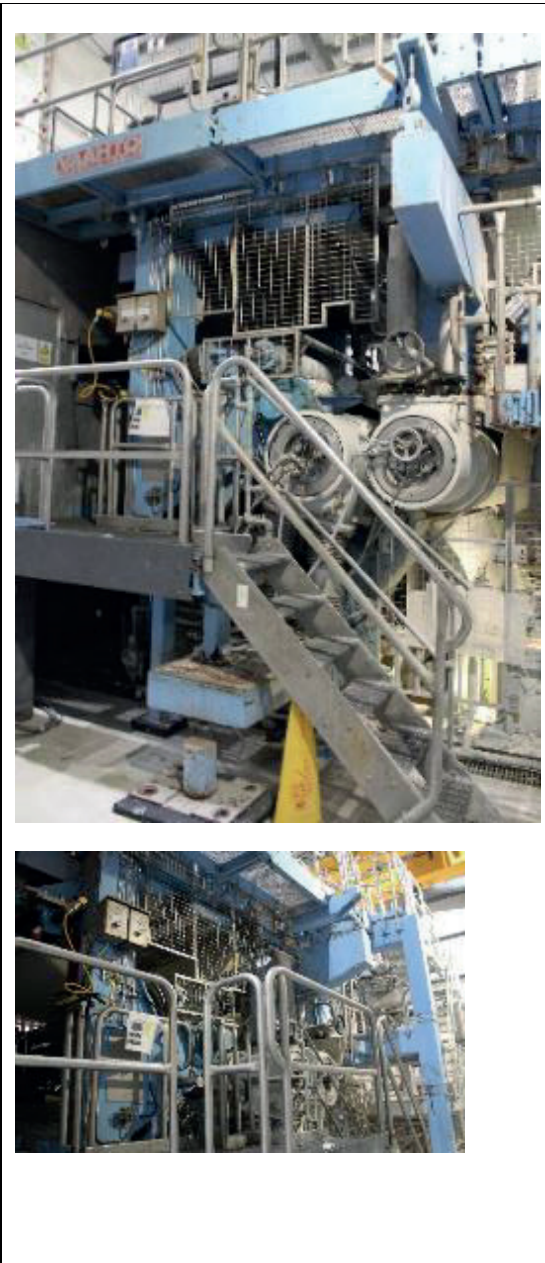
329	PM3 FABRIC SECTION CONTROLS		Includes: - Suction Roll Internal Shower Valve -High Pressure Shower Valve -Fabric HP Shower Valve -Cross Cutter Control Valve	1995	Vaahto	
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330	PM3 PRESS SECTION ROLLS		<p>Includes:</p> <ul style="list-style-type: none"> -Suction Pick up Roll -Suction Press Roll -Wet Felt Roll -Wet Felt Roll -Wet Felt Stretch Roll -Wet Felt Guide Roll -Press Bow Roll -Press Bow Roll -Press Bow Roll -Wet Felt Guide Roll -Wet Felt Stretch Roll -Wet Felt Roll -Wet Felt Roll -2nd Smoothing Press Roll -Adjustable Hold Down Roll -Adjustable Lead Roll -Adjustable Bow Roll 	1995	<p>Vaahto FIN BOW</p>	<p>SUCTION PICK-UP ROLL - 640 DIA.with FAG 23984, FAG 23236B, FAG 24028 S PRESS SUCTION ROLL - 710 DIA.with FAG 23984, FAG 23236B & FAG 24028S VAAHTO FELT ROLL - 250 DIA.with SKF 22312 EK C3 + SKF 22209 E VAAHTO FELT ROLL - 250 DIA.with SKF 22312 EK C3 + SKF 22209 E VAAHTO STRETCH ROLL - 250 DIA.with SKF 22312 EK C3 + SKF 22209 E VAAHTO GUIDE ROLL - 250 DIA.with SKF 22312 EK C3 + SKF 22209 E VAAHTO CURVED ROLL - 160 DIA. VAAHTO CURVED ROLL - 160 DIA. VAAHTO CURVED ROLL - 160 DIA. VAAHTO GUIDE ROLL - 250 DIA.with SKF 22312 EK C3 + SKF 22209 E VAAHTO STRETCH ROLL - 250 DIA.with SKF 22312 EK C3 + SKF 22209 E VAAHTO FELT ROLL - 250 DIA.with SKF 22312 EK C3 + SKF 22209 E VAAHTO FELT ROLL - 250 DIA.with SKF 22312 EK C3 + SKF 22209 E VAAHTO 2nd PRESS ROLL - 600 DIA.with SKF 22226K W33 + AHX 3126 SLEEVE VAAHTO HOLD DOWN ROLL VAAHTO ADJUSTABLE LEAD ROLL FIN BOW CURVED ROLL - 135mm DIA</p>
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331	PM3 PRESS SECTION		<p>Includes:</p> <ul style="list-style-type: none"> -Press Section Framework -Guards -Platforms -Control Desk -Saveall Trays -Saveall Trays Steam Supply -Hold Down Roll Adjusters -Suction Roll Leading Bellows -2nd Press Oscillation Doctor -2nd Press Oscillating Doctor Gearbox -2nd Press Oscillation Doctor Lubrication Shower -Top Press Felt Stretch Motor/Gearbox -Top Press Felt Stretch Gear -Top Press Felt Roll Doctor -Top Press felt Guider -Top Press felt Guider Bellows -Top Press felt HP Cleaning Oscillation Spray Bar -Top Press felt HP Cleaning Oscillation Spray Bar Oscillator -Top Felt Vacuum Box Lubrication Shower -Top Felt Guide Roll DoctorLubrication -Top Felt Chemical Cleaning Spray bar -Bottom Press Felt Stretch Motor/Gearbox -Bottom Press Felt Stretch Gear -2xBottomPress Felt Roll Doctor -Bottom Press felt Guider -Bottom Press felt Guider Bellows 	1995	<p>Vahto</p> <p>Bonetti Bonfirm KUMERA</p> <p>Bonetti Bonfirm Thune</p> <p>Thune</p> <p>Bonetti Bonfirm Thune</p> <p>Thune</p>	<p>Bonetti Bonfirm super x3100mm KUMERA MOTOR/GEARBOX. DASM 1080 GEARBOX C/W 0.37KW, 1000RPM MOTOR. IEC24F165</p> <p>K35A x3130mm THUNE GUIDER CONTROLLER COMPLETE WITH CHROME PLATED PALM (SIGURD SORUM) DRAWING A4/6762B.KANTKONTROLLER S6-C7S-2V/888 GUIDER THUNE TYPE 125/170-80. BORE</p> <p>K35A x3130mm HUNE GUIDER CONTROLLER COMPLETE WITH CHROME PLATED PALM (SIGURD SORUM) DRAWING A4/6762B.KANTKONTROLLER S6-C7S-2V/888 GUIDER THUNE TYPE 125/170-80. BORE</p>
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			<ul style="list-style-type: none">-Bottom Press felt HP Cleaning Oscillation Spray Bar-Bottom Press felt HP Cleaning Oscillation Spray Bar Oscillator-Bottom Felt Vacuum Box Lubrication Shower-Bottom Felt Guide Roll DoctorLubrication-Bottom Felt Chemical Cleaning Spray bar				
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			<p>Includes:</p> <ul style="list-style-type: none"> -Bottom Press felt HP Cleaning Oscillation Spray Bar -Bottom Press felt HP Cleaning Oscillation Spray Bar Oscillator -Bottom Felt Vacuum Box Lubrication Shower -Bottom Felt Guide Roll Doctor Lubrication -Bottom Felt Chemical Cleaning Spray bar -High Pressure Cleaning Gun Pump -High Pressure Cleaning Gun Pump Tank 				
332	PM3 PRESS SECTION CONTROLS		<p>Includes:</p> <ul style="list-style-type: none"> -Suction Pick Up Roll Cleaning Shower Valve -Suction Pick Up Roll Internal Shower Valve -Top Felt HP Cleaning Shower Valve -Suction Press Roll Cleaning Shower Valve -Bottom Felt Hp Cleaning Shower Valve -Bottom Felt Shower Valve 	1995			

333	PM3 HOG PIT		<p>Includes:</p> <ul style="list-style-type: none"> -2x Agitator -Pump -Consistency Regulator -Hog Pit -Knock Off Shower Flow Meter -Knock Off shower Flow Transmitter -Knock Off Shower Valve -Hog Pit Level -Hog Pit Return Flow Meter -Hog Pit Return Flow Transmitter -Hog Pit Return Flow Control Valve -Shower Valve -Broke Chute Cleaning Shower Valve 	1995	<p>Scaba Scanpump BTG Parsons Skillforce</p>	<p>SCABA 60SRKT-M1 314296E Scanpump FB 100/100-32 Serial No - 4614 1098-35 2300 Stainless Steel</p>	
334	PM3 HIGH PRESSURE PUMPS		<p>Includes:</p> <ul style="list-style-type: none"> -2x Pump 	1995	Scanpump	Scanpump NB 80/50-26	
335	PM3 MEDIUM PRESSURE PUMP		<p>Includes:</p> <ul style="list-style-type: none"> -Pump -Tank -Tank Level -Tank Level Control Valve -Pressure Transmitter 	1995	<p>Scanpump Parsons Skillforce</p>	<p>Scanpump NB 80/65-16 Serial No - 4614.1098-43 Stainless Steel</p>	


336	PM3 VERY HIGH PRESSURE PUMP		Includes: -Pump -Inlet Pressure Transmitter -Outlet Pressure Transmitter - Variable Speed Drive and Pressure Transducer	2003	LOWARA LOWARA	PUMP LOWARA SV6006 Lowara Hydrovar VSD	
337	PM3 VACUUM SYSTEM GENERAL		Included: -Pump -Sealwater Pit -Level Transmitter -Level Control Valve -Pump Pressure Transmitter -Platform -Hatemat Water System -Pre Separator Tank -Tank Level Transmitter -Control Valve	1995	Scanpump Portals	Scanpump NB 80/65-16 Serial No - 4614.1098-33 Concrete Stainless Steel	 



338	PM3 MOULD VACUUM SYSTEM		Included: -Mould Vacuum Fan -Fan Ducting -Vacuum Control -Pre Separator -Local Isolator	1995	Airco	AIRCO CBLM650-C3-01 Serial No 1718/01895-01	
339	PM3 SUCTION SLICE VACUUM SYSTEM		Included: -Suction slice Vacuum Fan -Suction Slice -Pre Separator -Pre Separator Pump -Control Loop	2003	WOODCO CK & WILSON Nash Nash	SUCTION SLICE VACUUM FAN W9569-2 NASH KROGH 3" Serial No1386	
340	PM3 FORMER INVERTED VACUUM BOXES		Included: -Pump -Post Separators -Pre separator Pump -Preseparator -Control Loop -2x Inverted Vacuum Box -Inverted Vacuum Box Fan -Inverted Vacuum Box Pre Separator -Inverted Vacuum Box Pre Separator Pump	1995	Nash ALLDAYS PEACOCK Nash Nash	NASH SC3 Serial No12616 NASH KROGH 3" Serial No95E10965 ALLDAYS PEACOCK 7.5kw 2890RPM Serial No RW3054 NASH KROGH 1" Serial No 11459	



							
341	PM3 FABRIC SUCTION ROLL VACUUM SYSTEM		Included: -Pump -Post Seperator -Pre separator Pump -Pre separator -Control Loop	1995	Nash	NASH CL3002 Serial No ME08534 NASH KROGH 1" Serial No	



342	PM3 SUCTION PICK-UP ROLL VACUUM SYSTEM		<p>Included:</p> <ul style="list-style-type: none"> -Holding zone Vacuum Pump -Post Separatros -Preseparator Pump -Holding zone Preseparator -Holding zone Preseparator Pump -Pick Up Control Loop -Holding Zone Vacuum Control Loop 	1995	Nash	<p>NASH 904M2 Serial No 0270083</p> <p>NASH KROGH 1" Serial No 11456</p> <p>NASH KROGH 1" Serial No 11457</p>
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343	PM3 SUCTION PRESS ROLL VACUUM SYSTEM		Includes: -2nd Press Vacuum Pump -Pre Separator -Pre Separator Pump -Control Loop	1995	Nash	NASH CL3002 Serial No 95E0489 NASH KROGH 1" Serial No 11453	
344	PM3 TOP FELT VACUUM SYSTEM		Includes: -Preseparator Pump -Vacuum Boxes -Preseparator -Control Loop	1995	Nash	NASH KROGH 1.25" Serial No 15925	
345	PM3 BOTTOM FELT VACUUM SYSTEM		Includes: -Vacuum Pump Preseparator Pump -Vacuum Boxes -Preseparator -Control Loop	1995	Nash	NASH SC7 Serial No ME010736 NASH KROGH 1" Serial No 11454	



346	PM3 EDGE TRIM VACUUM PUMP (PRE-FORMER)		Includes: -Vacuum Pump -Pre Seperator -Post Seperator -Vacuum Box -Control Loop	1995	Nash	NASH SC3 Serial No 95E0773	
347	PM3 DRIER SECTION		Includes: -Drier Hood -Drier Hood Door -Lifting Motor -Guards -Platforms -Va Sensors -Framework -Lighting -Sheehan Rope System -Bottom Guider -Bottom Guider Bellows -Top Guider -Top Guider Bellows -5x Drier Cylinder Oscillating Doctor -5x Drier Cylinder Oscillating Doctor Oscillator -7x Cylinder Doctor -Top Dry Wire Tenison System -Drier Control Desk	1995	Warburton Thune Thune Thune Thermo Fibertek PETER RAYNER Thermo Fibertek	THUNE GUIDER CONTROLLER COMPLETE WITH CHROME PLATED PALM (SIGURD SORUM) DRAWING A4/6762B.KANTKONTROLLER S6-C7S-2V/888 GUIDER THUNE TYPE 125/170-80. BORE THUNE GUIDER CONTROLLER COMPLETE WITH CHROME PLATED PALM (SIGURD SORUM) DRAWING A4/6762B.KANTKONTROLLER S6-C7S-2V/888 GUIDER THUNE TYPE 125/170-80. BORE Loading K35 x 2970mm GEAR MOTOR UNIT WITH ECCENTRIC CAM .37KW 900RPM'CLASS H'FLANGE MOUNTED BCP OR GEC. 1.35AMPS TYPE G/BOX GM2T 0.37KW 13RPM D80AD Loading K35 x 2970mm	



348	PM3 DRYING SECTION CYLINDERS		Included: -2x Teflon coated Drying Cylinder -12x Drying Cylinder	1995	Warburton	WARBURTON HOLGATE 60" DIA. DRYING CYLINDER with "SKF" SPHERICAL ROLLER BEARING - REF No.23044 CCK/W33/C4 + OH 3044H and TEFLON SLEEVE WITH 2.5IN JOHNSON NOZZLE STEAM TRUNNION WARBURTON HOLGATE 60" DIA. DRYING CYLINDER with "SKF" SPHERICAL ROLLER BEARING - REF No.23044 CCK/W33/C4 + OH 3044H WITH 2.5IN JOHNSON NOZZLE STEAM TRUNNION	
349	PM3 DRIER SECTION ROLLS		Included: -2x Paper Lead Roll -19x Top Wire Roll -2xTop Wire Stretch Roll -2xTop Wire Guide Roll -19x Bottom Wire Roll -2xBottom Wire Stretch Roll -2xBottom Wire Guide Roll	1995	Warburton	WARBURTON HOLGATE 8" DIA. INLET LEAD ROLLwith RHP MP40 WARBURTON HOLGATE 8.5" DIA. DRY FELT ROLL with "SKF" SPHERICAL ROLLER BRG. - REF No.22311 EK+ AHX 2311 & DEEP GROOVE BALL BRG.- REF.No.6 WARBURTON HOLGATE 8.5" DIA. DRY STRETCH ROLL with "SKF" SPHERICAL ROLLER BRG. - REF No.22311 EK+ AHX 2311 & DEEP GROOVE BALL BRG.- REF.No.6209 WARBURTON HOLGATE 8.5" DIA. GUIDE ROLL with "SKF" SPHERICAL ROLLER BRG. - REF No.22311 EK+ AHX 2311 & DEEP GROOVE BALL BRG.- REF.No.6209 WARBURTON HOLGATE 8.5" DIA. DRY FELT ROLL with "SKF" SPHERICAL ROLLER BRG. - REF No.22311 EK+ AHX 2311 & DEEP GROOVE BALL BRG.- REF.No.6 WARBURTON HOLGATE 8.5" DIA. DRY STRETCH ROLL with "SKF" SPHERICAL ROLLER BRG. - REF No.22311 EK+ AHX 2311 & DEEP GROOVE BALL BRG.- REF.No.6209 WARBURTON HOLGATE 8.5" DIA. GUIDE ROLL with "SKF" SPHERICAL ROLLER BRG. - REF No.22311 EK+ AHX 2311 & DEEP GROOVE BALL BRG.- REF.No.6209	



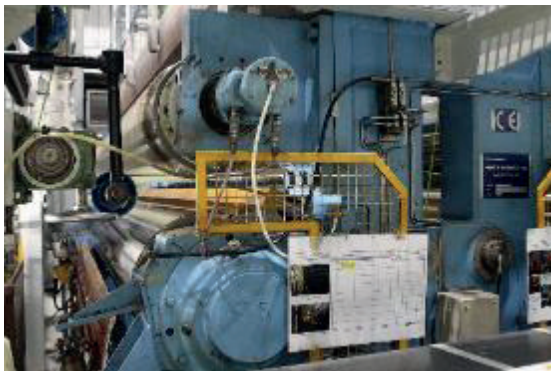
350	PM3 DRYER STEAM & CONDENSATE		Included: -2x Condensate Pump -Condensate Vacuum Pump -Condensate Vertical Receiver -Level Transmitter -Vacuum Control Valve -Heat exchanger -Temperature transmitter -Steam Pipework	1995	Scanpump Nash	Scanpump NB 65/40-26 NASH AHC120 Serial No ME08632	
351	PM3 DRYER AIR VENT SYSTEM		Included: -Drying hood heater Battery -Drier hood exhaust fan -Ducting -Pocket Vents -PV Fan -Fresh Air Damper System -Exhaust Air Damper System	1995	Airco Fan Systems	AIRCO 1000 BDA 11kw 1460rpm Serial No 2080/00194.01 FAN SYSTEMS 30kw 1470rpm Serial No 4250-1	
352	Drying Section	Controls	Included: -Steam flow Meter -Header Pressure Control Valve -Pressure Transmitter -14xPressure Transmitter -14xPressure Control Valve	1995	MASONEI LAN ROSEMOU NT MASONEI LAN	CAMFLEX 2 cv500 6" 1151GP-6-S-22-W5-NA-B1-CM CAMFLEX 2 cv50 2"	




353	Size System	Storage	Included: -Storage Tank -Agitator -Platform -Level Transmitter -Level Indicator -Temperature Transmitter -Temperature Control Valve	1995	JOSHUA GREAVES & SONS LTD	F.G.M.1 GEARED PROPELLER MIXER/AGITATOR NO.105/G 0.75KW IP55 1440RPM VERTICAL FLANGE MOUNTED 415V 3PH SER.NO.23851	
354	Size System	Pumps	Included: -Size Return Pump -2x Circulating Pump -2x Pressure Transmitter -2x Circulating Pump Filters	1995	Mono Albany	Mono SAC12H1B5/H1593 Mono SAB12H1B5/H1593 FILTER ELEMENT ALBANY ST.ST 20 MESH	



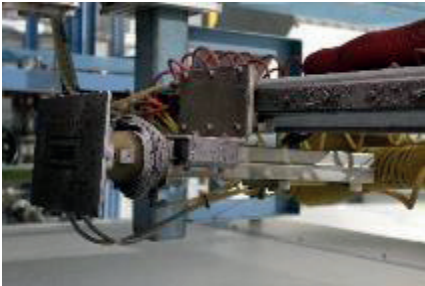
355	Size System	Bath	<p>Included:</p> <ul style="list-style-type: none"> -Lifting table platform -Lift Hydraulic Power Pack & Controls -Size Bath -Level transmitter -Flowmeter -Control Valve -Density Transmitter -Size Density control valve -Refractometer Cleaning Pump -Hood Extract Fan -Fan Ducting -Size Press Framework -Press Roll Loading Bellows -Dip Roll Jacks -Dip Roll Jack Air Motor -Size Press Roll Nip Bar -Spreader Bar -Size Bath Guards -Platform & Steps -Control Desk 	1995	Warburton EASILIFT	<p>Easilift Hydraulic power pack 2.2kw</p> <p>AIRCO 800mm LCA FAN 5.5kw 1450rpm Serial No 1718/00295-03</p>	
356	Size System	Water Dilution System	<p>Included:</p> <ul style="list-style-type: none"> -Dilution tank -Dilution Header Tank -Dilution Header Tank Level transmitter -Dilution Header Tank Control Valve -Water vertical Calorifier 	1995			



357	Size System	Hot Water System	<p>Included:</p> <ul style="list-style-type: none"> -Hot Water pump -Header Tank -Level transmitter -Temperature transmitter -Temperature control valve -Size Kitchen horizontal calorifier 	2016	Grundfos	TP40-C0/2A	
358	Size System	Rolls	<p>Included:</p> <ul style="list-style-type: none"> -Lead Roll -Bottom S Wrap Roll -Fixed Bow Roll -Dip Roll -Bottom Size Press Roll -Top Size Press Roll 	1995	Warburton	<p>WARBURTON HOLGATE 6" DIA. LEAD ROLL with RHP MP40 WARBURTON HOLGATE BOTTOM 'S' WRAP ROLL - 22" DIA.with "SKF" PLUMMER BLOCK - REF No.SNH 511 TA 22211 EK+ H311 + (2) FRB 9.5/100 (FIXED) "SKF" PLUMMER BLOCK - REF No.SNH 511 TA 22211 EK+ H311 + (FREE) WITTLER 100 DIA. FIXED BOW ROLL WARBURTON HOLGATE 254.7 DIA. DIP ROLL with "SKF" BALL BEARING - REF No.22209 EK W64 (OIL FILLED)+ H309 SLEEVE WARBURTON HOLGATE 460 DIA. BOTTOM SIZE PRESS ROLL with "SKF" SPHERICAL ROLLER BEARING - REF No.22226 EK+ AHX 3126 WARBURTON HOLGATE 460 DIA. TOP SIZE PRESS ROLL with "SKF" SPHERICAL ROLLER BEARING - REF No.22226 EK+ AHX 3126</p>	


359	Paper Drying	Air Float Drier	<p>Included:</p> <ul style="list-style-type: none"> -Air Float Dryer canopy -Steam flow meter -Exhaust Fan -Exhaust fan ducting -2x Exhaust fan damper -Air Float dryer retraction system motor -Exhaust Air flow Control Valve -Air float Dryer lights -Control Desk - x 2 Fans -x 2 Heater Battery -x 2 Temperature transmitter -x 2 Temperature control valve -x 2 Nozzles -x 2 Platform -x 2 Top Damper -x 2 Bottom Damper 	1995	<p>Spooner</p> <p>FAN SYSTEMS</p> <p>FAN SYSTEMS</p>	<p>SPOONER 1/9409 1995</p> <p>FAN SYSTEMS 18.5kw 1465rpm Serial No 4235-3</p> <p>DUFF NORTON 1FK 265 8M3</p> <p>FAN SYSTEMS Serial No 4235-2</p>	
360	PM3 WEB GUIDER	Web Guider	<p>Included:</p> <ul style="list-style-type: none"> -Hydraulic Power Pack & Controls -Web guider carriage -2x Guider Roll 	1995	ERHARDT & LEIMER	ERHARDT & LEIMER SR20 STEERING ROLLER ASSEMBLY with INA RAE 40 NNP FA106	

361	PM3 NIP ROLLS	Nip Rolls	Includes: -Bottom nip rolls -Top nip rolls -2x nip roll loading cylinder	1995	Warburton	WARBURTON HOLGATE 375 DIA. BOTTOM NIP DRIVE ROLL with "SKF" PLUMMER BLOCK - REF No.SNH 616 TA 21316 CCK + H316 + (2) FRB 14.5/170 (FIXED) "SKF" PLUMMER BLOCK- REF No.SNH 616 TA 21316 CCK + H316 (FREE) WARBURTON HOLGATE 300 DIA. TOP NIP ROLL with "SKF" SPHERICAL ROLLER BEARING - REF No.22311 EK+ AHX 2311 "SKF" DEEP GROOVE BALL BEARING - REF.No.6209	
362	PM3 CALENDER HYDRAULIC SYSTEM		Includes: -3x hydraulic pump -3x Oil tank -Oil tank heater -Temperature Transmitter -Cooling Valve	1995	Jefferson HUNT & MOSCROP	JEFFERSON P3100B 386 SPL 2A05 C32 SPL ZA07-1M	
363	PM3 CALENDER SECTION ROLLS		Includes: -2x Lead roll -3x Fixed bow roll -2x Swimming calender roll -2x Steel calender roll -3x Lead roll	1995	Warburton Wittler HUNT & MOSCROP HUNT & MOSCROP Warburton	6" DIA. LEAD ROLL with RHP MP40 WITTLER 110 DIA. FIXED BOW ROLL HUNT & MOSCROP 405 DIA. SWIMMING ROLL HUNT & MOSCROP 508 DIA. DRIVE ROLL 6" DIA. LEAD ROLL with RHP MP40	

							
364	PM3 CALENDER SECTION AUXILIARIES		Includes: -2x Calender Oscillating gearbox -2xDoctor -Control Desk -Guards -Platforms -Framework -2x Loading yinders -Sheehan Rope -Sheehan Rope drive gearbox -Sheehan Rope local isolation	1995	PETER RAYNER Thermo Fibertek	GEAR MOTOR UNIT WITH ECCENTRIC CAM .37KW 900RPM'CLASS H'FLANGE MOUNTED BCP OR GEC. 1.35AMPS TYPE G/BOX GM2T 0.37KW 13RPM D80AD Loading K35 x 2840mm	
365	PM3 WEB MEASURING AND MONITORING SYSTEMS	Vision System - Paper Quality	Vision System to detect both sides of paper - Dirt - Creasing - Thread position, orientation and oscillation and pattern match - Hole detection - Water mark detection	approx 2014	ISRA	Bespoke	
366	PM3 WEB MEASURING AND MONITORING SYSTEMS	Vision System - Thread Inspection	Vision system to detect Thread Position and orientation within bank note paper. Includes Cameras, Computers, and Lights.	Upgraded 2015	Stemmer Imaging	Bespoke	

							
367	PM3 WEB MEASURING AND MONITORING SYSTEMS	Ink Markers	Inl marker sets with pneumatic control. 7 sets of 2 ink markers. Adjustable positions on bar.	Unknown	Unknown	Unknown	
368	PM3 WEB MEASURING AND MONITORING SYSTEMS	Waterleaf Porosity Measurement System	Waterleaf porosity measurement system	1995	Scanlog	Scanlog Porolog 2000	

369	PM3 WEB MEASURING AND MONITORING SYSTEMS	ABB Scanning Gauge	ABB Smart Platform Frame and Sensors Including Frame and Electronics Basis Weight Sensor Moisture Sensor Colour Sensor Optipak Sensor Caliper Sensor Ash Sensor IR Sensor Incl associated ancillaries - Water cooling system, Blower fan and feed transformer (240/220V)	1995	ABB	Smart Platform	
370	PM3 REELING SECTION		Includes: -DRU unload motor -DRU Inspection lights -DRUM reeler transfer carriage -DRU splicing system -DRU main carriage -DRU control desk -Tension roll control system -Reel up guarding -Drum Reel up framework -Drum reel up platforms & steps -Drum Reel up sheehan rope system -Drum reel up sheehan rope	1995	Flender Warburton	FLENDER CDUA 250 892.5:1 Serial No 410.411.159	

			tension & drive -Core extractor				
371	PM3 REELING SECTION ROLLS		Includes: -10x Paper Lead Roll -Tension Roll -Adjustable bow roll -Slitter roll -Fixed Bow roll -Reel drum -Mini bend bars	1995	Warburton WHITTLER Portals WHITTLER Warburton Warburton	6" DIA. LEAD ROLL with RHP MP40 WHITTLER 130 DIA. VAR-BOW ROLL WHITTLER 110 FIXED BOW ROLL BAR MINI BEND REELER 128MM DIA	




372	PM3 ABB - DCS CONTROL		ABB Advant Operator Workstations (3 off) ABB AC450 Controller (3 off) ABB MP280 Controller (1 off) ABB AC800M controller (1 off) ABB IO Panels containing S400 and S800 IO (Digital IO 110Vac, analog IO 4-20mA) ABB Engineering Workplace for Control Builder A ABB 800xA Host Server and Server Rack ABB 800xA Operator Workplace (2 off)	Various Years	ABB	Bespoke
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373	PM3 SECTION DRIVES	Sectional Drive System ABB Multidrive System with Control Panel	Includes: -MCC incomer and ACU -MCC Incomer Isolator -Mould helper drive -Mould helper indrive -Framework -Former drive -Former indrive -Former indrive framework -Fabric drive -Fabric indrive -Fabric indrive framework - Fabric suction roll drive - Fabric suction roll indrive - Fabric suction roll drive framework -Suction pick up roll drive -Suction pick up roll indrive -Suction pick up roll drive framework -Smoothing Press roll drive -Smoothing Press roll indrive -Smoothing Press roll indrive framework -2x drier drives -2x drier indrives -2x drier indrive framework -2x indrive jackshaft -Size press drive -Size press indrive -Size press indrive framework -Nip Roll drive -Nip roll indrive -Nip roll indrive framework -2x calender drive -2x calender indrive -2x calender indrive framework -Dru reeler drive -Dru reeler indrive -Dru reeler indrive framework	1995 with ABB VSD Multidrive upgrade in 2018	ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender ABB Flender	ABB M2BA 200MA 18.5KW 984RPM Serial No 3284210 with ABB ACS880-107 VSD FLENDER D181A 52.56:1 Serial No B272836/01 ABB M2BA 132MB6 5.5KW 960RPM with ABB ACS880-107 VSD FLENDER D142A 65.47:1 Serial No 410.947.02 ABB M2BA 200MA 18.5KW 984RPM with ABB ACS880-107 VSD FLENDER D142A 27.48:1 Serial No 410.947.04 ABB M2BA 200MA 18.5KW 984RPM with ABB ACS880-107 VSD FLENDER D162A 33.86:1 Serial No 410.947.03 ABB M2BA 200MA 22KW 984RPM with ABB ACS880-107 VSD FLENDER D162A 39.89:1 Serial No 0031185-02-01 ABB M2BA 200MA 18.5KW 984RPM with ABB ACS880-107 VSD FLENDER D162A 33.86:1 Serial No 410.947.06 ABB MBTA160L6 11KW 970RPM with ABB ACS880-107 VSD FLENDER D142A 19.1:1 Serial No 417.947.07 ABB MBTA160L6 11KW 970RPM with ABB ACS880-107 VSD FLENDER D142A 27.48:1 Serial No 417.947.09
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						<p>ABB M2AA132MB6 5.5KW 960RPM with ABB ACS880-107 VSD FLENDER D101A 20.22:1 Serial No 417.947.10</p> <p>ABB M2BA 200MA 18.5KW 984RPM with ABB ACS880-107 VSD FLENDER D142A 27.48:1 Serial No 417.947.11</p> <p>ABB MBTA160L 11KW 970RPM with ABB ACS880-107 VSD FLENDER D142A 33.45:1 Serial No 410.601- 2561-05</p>	
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374	PM3 SECTION INDRIVES	Stand alone Machine VSDs ABB Multidrive System	Includes: -Incomer and ACU -Incomer isolator -Refiner drive -Vat fan pump drive -Former Fan pump drive -2x air float dryer zone fan driv -Evener roll drive -Evener roll indrive -Silk pumps drive	ABB VSD Upgrade 2018	ABB	ACS880-107 Multidrive System	
375	PM3 MCC41		Includes: -MCC incomer 2000A -123x Starters -14x Spares -16xPanel -2x Supply -Remote I/O ABB S400 for starter control	1995	GEC	Bespoke	
376	PM3 MAIN FEEDER & SWITCH AUX		Includes: Distribution System 2 off Incomers from separate Transformers 2 off Feeders to MCC's Multiple Feeders for Fuse boards.	1995	GEC	Bespoke	
377	PM3 BIOCIDIC SKID		Includes: -Biocide skid -Biocide skid local start				

							
379	PM3 FELT CLEANING SYSTEM		Includes: -Felt cleaning skid -Felt cleaning skid spraybars	Unknown	Unknown	Unknown	
381	PM3 SOFT WATER SYSTEM		Includes: -2x Softwater pump -Ringmain pressure transmitter -2x softwater resin tank -Soft water filter tank -Soft water unit platform -Soft Water btine tank -Salt conveyor -Salt conveyor local starter -Water hardness testing unit	1995	Grundfos	Grundfos CR60-30	



								
382	PM3 WET STRENGHT RESIN SYSTEMS		Includes: -Wet strength resin flowmeter -Wet strength resin flow transmitter -Wet strength resin control loop valve	1995	SOMAS	KVT - A6 - AKT - B11		


							
383	PM3 CMC SYSTEM		Includes: -CMC flowmeter -CMC flowtransmitter -CMC control loop valve	1995	SOMAS	KVT - A6 - AKT - B11	
384	PM3 ASHLESS OPACIFIER SYSTEM		Includes: -Tank&bund -Pump -Local starter -Flowmeter -Flowtransmitter -Flow control valve	1998	Mono	Mono SAA 12H1R5	

							
385	PM3 SILK SYSTEM		Includes: -2x Silk supply tank -2x Silk supply tank agitator -2x Silk supply tank level transmitter -2x Silk supply tank level control valve -2x silk supply pump -Silks flowmeter -Silks flow transmitter -Silks flow control valve	1995	Mono	Mono SAC12H1B5/H1593	
386	PM3 "M" FEATURE		Includes: -M feature mixing tank -M feature holding tank -2x tank agitators -2x pumps -Pump change over panel -2x local isolators -Flowmeter -Flowtransmitter -Flow control loop valve -2 tank level transmitters -2x pressure transmitters -2x level control valves	1999	LIGHTNIN MONO	Plastic LQ75 PUMP EPSILON E14BS80RRA M FEATURE 165@50HZ 2 BAR	

							
387	PM3 MCC AHU		Includes: -MCC air handling unit -Fan -Cooling coil -Ducting -Filters -Control Valve -Air Temperature transmitter	1995	GREENBA NK		

388	PM3 MACHINE HOUSE AHU		Includes: - Air handling unit -Fan -Cooling coil -Ducting -Filters -Control Valve -2x Air Temperature transmitter -Air heater battery -Temp Heather Battery -AHU lights	1995	GREENBA NK	37KW 64800M3/hr	
389	PM3 DRIVE SUITE AHU		Includes: -Drive Suite Fan -Air handling unit Ducting -Fliters -Cooling coil -Control valve -Transmitter	1995	GREENBA NK		
390	PM3 FRESH AIR MAKE-UP		Includes: -Frash air fan -Ducting -Temperature transmitter -Make up fan air handling unit -Ducting -Filter -Make up fan	1995	GREENBA NK	5.5KW 20000M3/hr	
391	PM3 MACHINE HOUSE VENT FANS		Includes: -4x Exhaust fans	1995	GREENBA NK	0.32KW 5450M3/hr	

							
392	PM3 HOIST & LIFTING GEAR		Includes: -2x Cranes -36x Lifting beams -Suction Pick up roll lift bracket -Suction roll lifting bracket -Press roll lifting bracket	1995	KONE		

							
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