

## 6. Mat Forming

Qty	Description	Make	Equip #
<b>1</b>	<b>Fiber Mat Former Metering Section</b>	Siempelkamp	<b>4220</b>
	designed for continuous forming of MDF fiber, spreading width of 3350 mm,		
	installed power of 127 kW,		
	bunker type complete		
	inspection windows		
	measurement and control devices for bunker filling level		
	spreading, equalizing and extraction components		
	scraper chain chain and dosing belt conveyor		
	explosion protection system (i.e. Kidde Deugra)		
	extinguishing nozzles		
	overhead metering type fiber retarder with distribution unit		
	steel support structure with gangways and steps		
<b>1</b>	<b>Mat Forming Segment</b>	Siempelkamp	<b>4310</b>
	complete forming and intermediate belt conveyor designed for receiving continuous mat from forming section and transporing through belt scale, metal detector and spray system with:		
	belt width of 3350 mm with working height of 1500 mm,		
	installed power of 54 kW		
<b>1</b>	<b>Forming Line Control Panels</b>		
	includes 4200MC01 mat former control panel, 4300MC01 forming line controller, 4300MC11 forming line servo drives. And 4572MC01 controller for release agent application device (located in control room SR-03 located across from mat forming/metering structure)		
<b>1</b>	<b>Twin Screw Conveyor</b>	Siempelkamp	<b>4210</b>
	located above Fiber Mat Metering Section		
	designed volumetric throughput of 800 m3/h		
	6.75 meter screw length, :		
	1250 mm screw dia.,		
	(2) 15 kW gear motor drives with speed monitoring		
	covered with inspection doors,		
	under-pressure valves and overload lap		
<b>1</b>	<b>Large Rotary Valve</b>		
<b>1</b>	<b>Small Rotary Valve</b>		
<b>1</b>	<b>Fiber Collection Bins (2) and Sifter Cyclone (located on roof)</b>		
	with connecting sifter bldg cyclone located on roof		
<b>1</b>	<b>Belt Scale</b>	Siempelkamp	<b>4331</b>
	provides continuous control of the mat weight which automatically injects faulty mat into the reject mat hopper with speed adjustment on bottom belt		
	includes weigh cells, amplifier and connecting adjustable wall black transfer system		
<b>1</b>	<b>Moisture Meter</b>	Siempelkamp -EWS	<b>4322</b>
	provides continuous measuring of moisture on the forming line of 2 to 20%, infrared type complete with measuring head and display terminal		
<b>1</b>	<b>Continuous Pre Press</b>	Siempelkamp	<b>4340</b>
	compaction of fibre mat material into an approx 3500 mm width utlizing (5) pairs of compression rollers.		
	Installed power of 280 kW with		
	- stationary lower part, movable upper part		
	- press belts for upper and lower part		
	- belt tracking unit		
	- main pressing zone with pairs of pressure rolls		

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	- hydraulic cylinder units		
	- degassing zone		
	- hydraulic position control		
	plus gear drive reducers and brakes for the belt drive.		
	System complete with hydraulic unit with 300 bar operating pressure with installed power of 60 kW		
<b>1</b>	<b>Belt Splicing Device</b>		<b>4390</b>
	utilized for belt splicing in the forming and prepress segment of production. Includes:		
	upper and lower segment hot platens, temp sensors and controls, electric heating and cooling unit with controller		
<b>1</b>	<b>Mat Trimming Saw</b>	Siempelkamp	<b>4348</b>
	trimmed mat range of 2490 to 3380 mm, with 36,800 Nm <sup>3</sup> /h air volume and installed power of 17 kW.		
	Complete with:		
	cross beam rail and gantry support (2) trimming units,		
	(2) movable carriages for trimming support with motorised spindles for format adj and position encoders,		
	(2) deflector guide plates for waste trim to (2) collection hoppers with disintegrating rollers		
<b>1</b>	<b>Ecoscan NEO</b>	Sico Scan	<b>4341</b>
<b>1</b>	<b>Metal Detector</b>	Cassel	<b>4334, 4350</b>
	thru belt design measuring system with transmitter and receiver, complete with		
	electronic control cabinet, plus non metal support around detector for forming belt		
<b>1</b>	<b>Mat Reject Hopper</b>		<b>4370</b>
	designed for collection of incomplete mats or start up materials with collection hopper, spike rolls and 11 kW drives		
<b>2</b>	<b>Mat Spraying Devices</b>		<b>4360</b>
	application of moisture to the mat surface layers prior to pressing utilizing (2) spraying heads for the forming belt and top of mat		