

INDIA'S FIRST ESG CERTIFIED COMPANY OFFERING SOLUTION FOR MANUFACTURING FIBER PULP MOLDED PRODUCTS



Leading With Innovation

VISION & MISSION



Vision

To be the globally preferred brand and partner for agro and non-agro fiber molding industry.



Mission

Ensuring sustainable growth of all stakeholders and encouraging continuous improvement in culture by providing innovative and affordable engineering solutions. To offer sustainable solutions that can replace single-use disposable plastics with chemical-free, environment-friendly molded fiber pulp products. Help the world achieve single-use plastic independence while making India plastic free by 2030.





Ecosure Pulpmolding Technologies Limited (EPTL) Group of Industries is a pioneer in manufacturing of Machine's for Agro / Non Agro Fiber Molding Industry in India. We are into the Industry fighting strongly against Single use Plastic for more than a decade.

EPTL is one of the largest manufacturer & supplier of Agro Fiber Molding machinery.

EPTL is focused on research & development. Research done by Ecosure shows that the latest technology proposed by EPTL not only enables Agro / Non Agro Fiber Molding Industry to increase its Pulp quality but also reduces substantial power consumption by energy efficient machines which are crucial in the Fiber Pulp Molding industry.

EPTL manufactures various products which can be used for a number of operations in stock preparation. EPTL has global consultancy services, which support organizations in setting up Fiber Pulp Molding plants and also help existing manufacturing facilities in achieving higher production goals. EPTL has domestic client international clients based in Thailand and Australia.

Taiwan Happiness Moon as
a South Asia partner.

2012



2016

Incorporation of an Indo-china Joint
Venture by the Name of BeSure technology
India Pvt. Ltd.

Incorporation of Ecosure
Pulpmolding Technologies Ltd.

2019



2020

Established the infrastructure to
manufacturing Pulpmolding Machine & molds
at Greater Noida.

Incorporation of Pulptech
India pvt. Ltd.

2021



2023

Incorporation of Global Tech India pvt. Ltd
for Fiber Pulp Making Mill

India EPTL has Sold 400++ Made in India
Machine including 41++ Projects

2024



THE REWARDING JOURNEY SO FAR

INSPIRING MILESTONES

- 12+ Years of Experience
- India's 1st & Largest Solution Provider of Agro / Non Agro Fiber Molding Production Line (100% Made in India)
- 41++ Fiber Pulp Molding Production Line Install
(Only Company in India with 41++ Fiber Pulp Molding Projects install base)
- 400++ Fiber Molding Machines Supplied (100% Made in India)
(One and Only Company Who Installed 400++ Machines in India Single Handed)
- 3+ Manufacturing Facilities in India
(Greater Noida, Indore, and Sitarganj)
- 3+ Countries Served with our Agro Fiber Pulping Technology

WHY AGRO FIBER PULP?

- Renewable and Natural Resources made from agro waste material.
- 100% Biodegradable and compostable.
- Microwave safe.
- Freezer Friendly.
- Water and Oil Resistance.
- Hygienic and food Grade.
- Heat resistance and steady to hold.
- Recyclable.
- No Plastic Coating.

ECOSURE AGRO FIBER MOLDING PRODUCTS SOLUTION

EPTL Offers Fully Automatic Stock Preparation Equipments (Pulping System for Agro Fiber Molding Production Line), Fully Automatic Agro Fiber Molded Machine, Semi-Automatic Agro Fiber Molded Machine, Production Molds and Product Die Stamping Machine. EPTL provides turnkey solution for setting-up Agro Fiber Molding production line with Engineering Services & Specific custom solutions to meet client needs. EPTL offers Stock Equipment's for processing Agro Fiber Pulp, Triple Disc Refiner (TDR), Deflaker, Agitator, Low Consistency (LC) Cleaner and many more after market tested equipment for Production. The strength and quality of Molded Agro Fiber Products mainly depends on the fiber used. By selecting the best fiber processing solutions, EPTL improves the bonding ability of fibers that eventually increase the Strength, Quality and Finish of the final product.

USED FOR

Tableware • Food Packaging • Medical packing • Industrial Packaging



WHY CHOOSE ECOSURE?

- 100% Made in India first and largest pulp molding machine manufacturer.
- 41++ successful projects installed.
- 8+ under installation & upcoming projects.
- In-house lab for pulp and mold testing facilities.
- R&D center for more innovation.
- Drawing and designing in-house facility.
- Demo plant for customer.
- Training center to develop new operators.
- 24x7 days after sales services support.
- AMC & extended warranty support.

Note: All our Thermoforming machines can be modified to adjust existing mold of any other machine make with similar mechanism.

GREENFIB™ PULPMILL



DESCRIPTION

The GreenFib™ Pulpmill is a flagship innovation by Ecosure Pulpmolding Technologies Limited, designed to process renewable, non-wood raw materials such as sugarcane bagasse, wheat straw, rice straw, bamboo & etc into high-quality cellulose pulp.

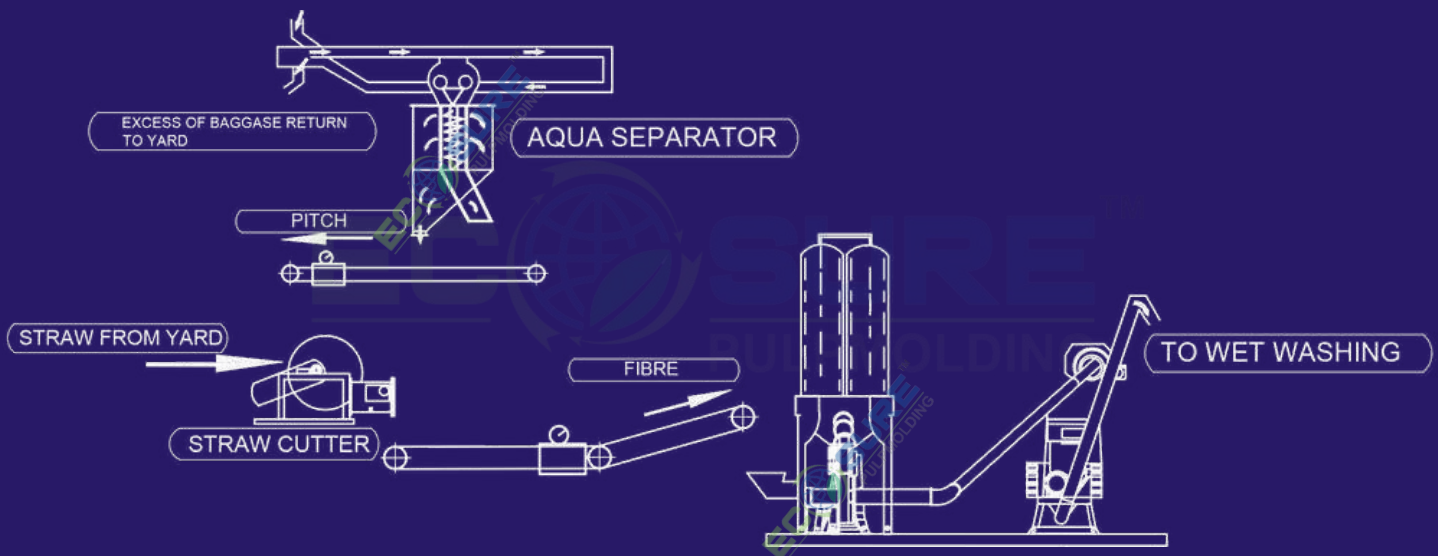
FEATURES

- Sustainability at Its Core
- Customizable Capacities
- Efficiency and Optimization
- Advanced Enzymatic and Mechanical Pulping Process
- Cutting-Edge Equipment
- Integration-Ready

SPECIFICATION

Capacity	Starting from 3 up to 50, 100, 150 Tons Per Day
Raw Material	Sugarcane Bagasse, Wheat Straw, Rice straw, Bamboo etc.
Process	Enzymatic or Mechanical Pulping
Water Usage	Optimized; recycling systems available
Chemical Usage	Low or zero; environmentally safe options
Energy Requirements	Tailored to client site conditions
Product Quality	High-grade cellulose pulp (various blends)
Emission Standards	Meets international environmental norms

Feed Stock Preparation

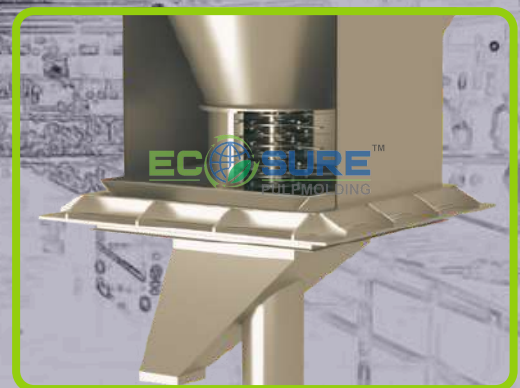


The key to any non-wood process is fiber preparation. This is a dry process that uses an equipment called Depither for Bagasse, Straw cutter in case of rice straw or wheat straw and Deduster system

- If the wheat/rice straw is lengthy, it is cut to the acceptable length by the straw cutter.
- For bagasse, the fiber is put into a bale breaker to be converted into loose bales and fed into the Depither via a pin feeder that regulates the flow.
- The fiber is separated from pith in the case of bagasse or dust in the case of wheat straw.
- The de-pithed or dedusted fiber is then sent to the next stage of the process.
- The pith or dust can be used as biofuel.

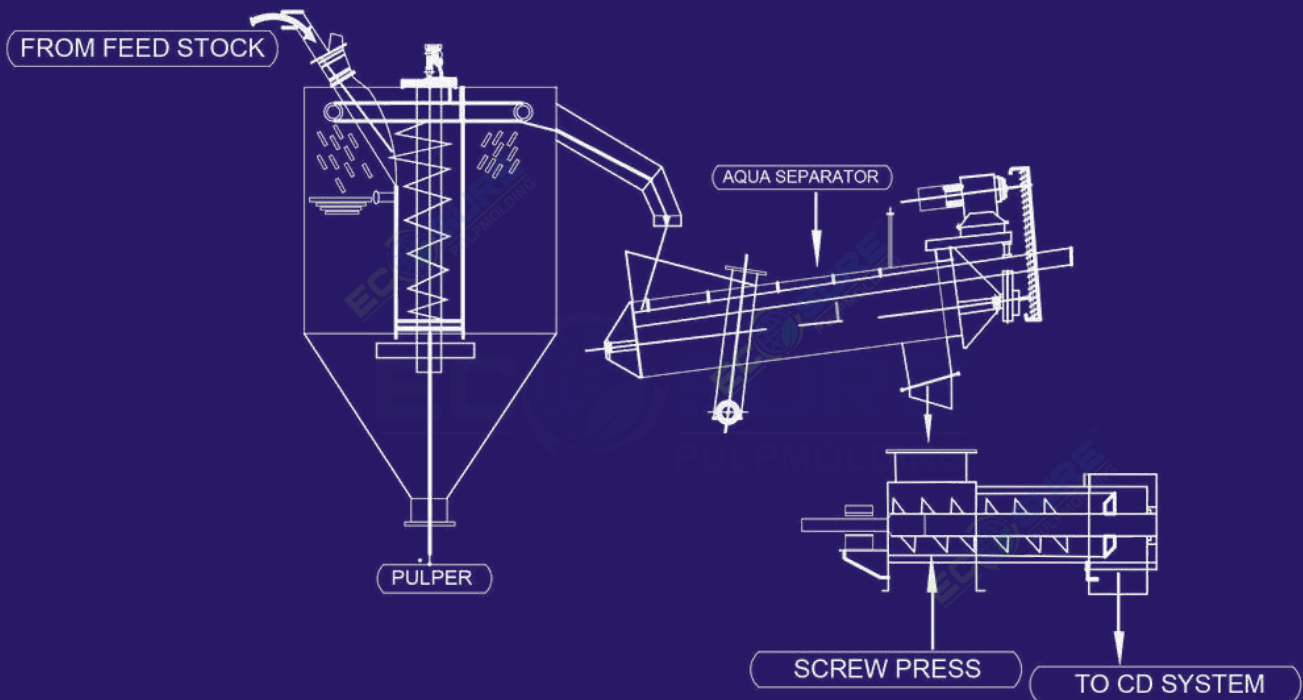


Straw Cutting Machine



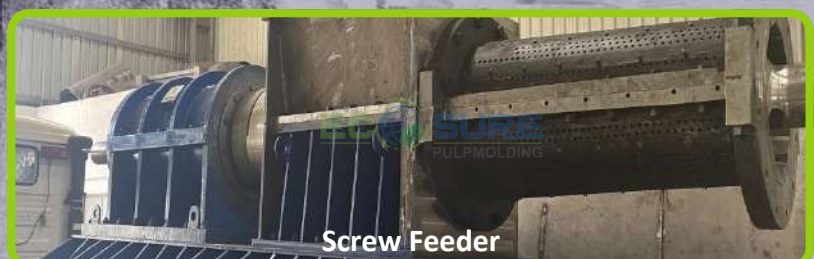
Vertical Rotor Depither

Wet Washing System

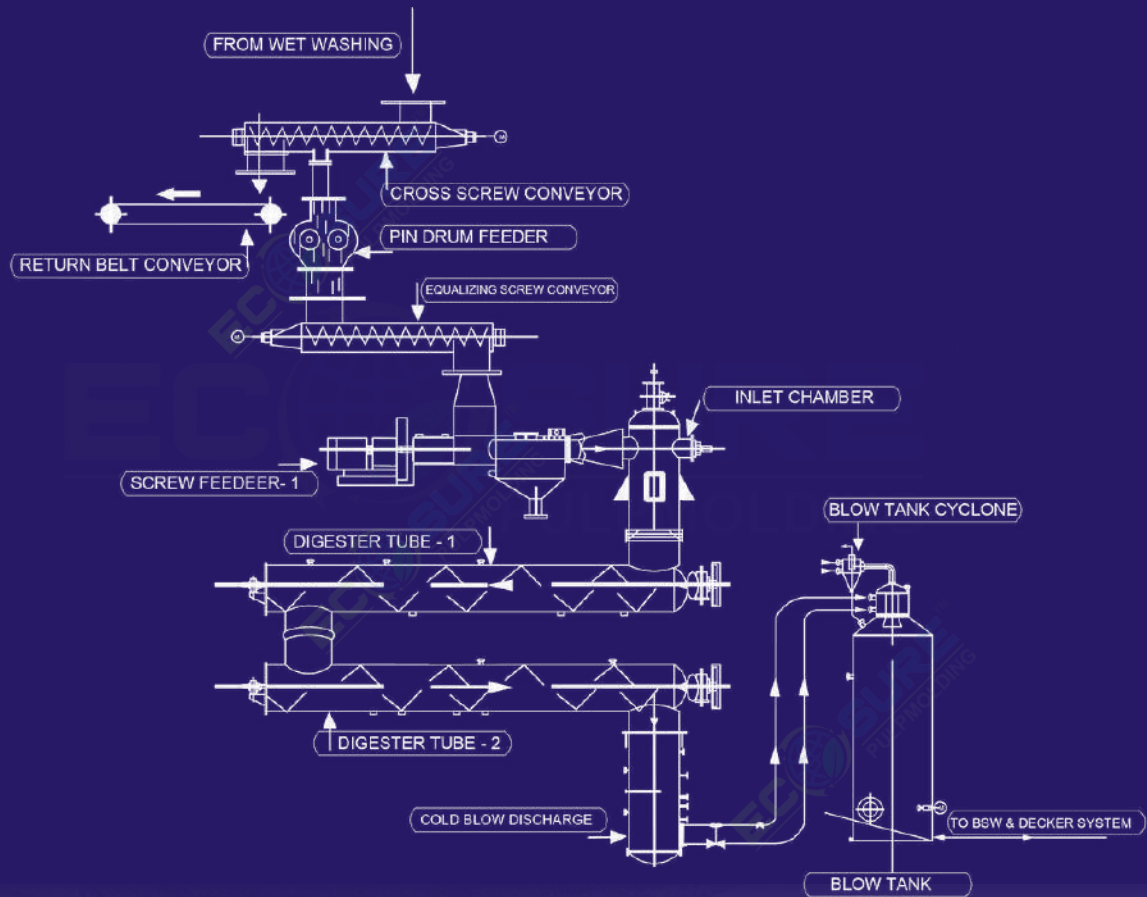


Wet Cleaning System comprises of pulper, aqua-separator, screw press, DSM screens etc. It is used to wash agro-based raw materials to remove impurities like silica and dirt. Efficient washing of raw material and maximum recovery of water are the main functions of the wet cleaning system. EPTL produces high quality, cost effective wet cleaning systems.

EPTL DSM Screen is stationary wedge bar unit that offers unparalleled saving to pulp and paper industry in wide variety of the application Dickering, Washing, Save-all and Fibre recovery saving in lower installation cost, faster pay out and simple and smooth operation.



Continuous Digester System



Diminishing availability of hardwood and increasing prices, have forced major pulp producers to switch over to agro based raw materials like bagasse, wheat straw, rice straw etc. EPTL has developed indigenously and designed several continuous digester systems to process these raw materials.

This system has various salient advantages over batch digesters in terms of better process control, consistent and uniform quality of pulp, low cooking time, and low steam consumption thereby reducing the production costs and providing flexibility to work with various raw materials.



Pin Drum Feeder

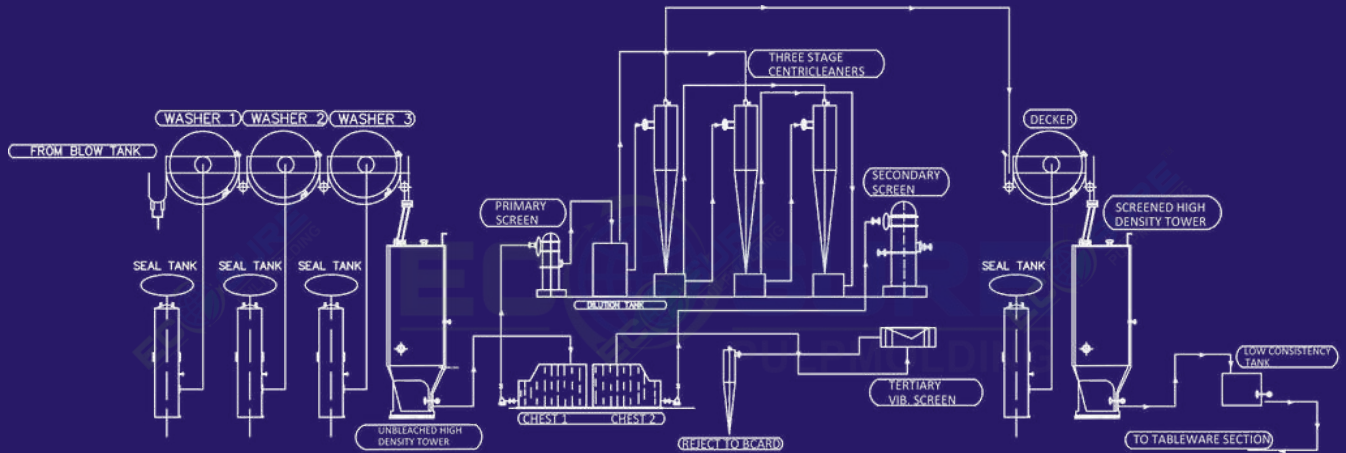


Inlet Chamber



Digester

Brown Stock Washing System



EPTL Brown stock washing comprises series of equipment unit each especially designed to accomplish a specific operation. Because of the nature of the system and relationship to each unit of the flow sheet, each unit must be considered in proper sequence. Consider Brown stock as a wood pulp (or pulp obtained from non-wood agriculture residue) prior to washing but after it has been cooked in Digester for removal of binding material (lignin) and other non cellulose material present in the wood chips. Prior to entering into the Brown stock washing system, wood is digested under pressure in a solution of chemicals. The type and strength of chemicals will be depended on the cook. The Brown stock Washing System is a very important step in the processing of pulp, the main objectives being,



Washer

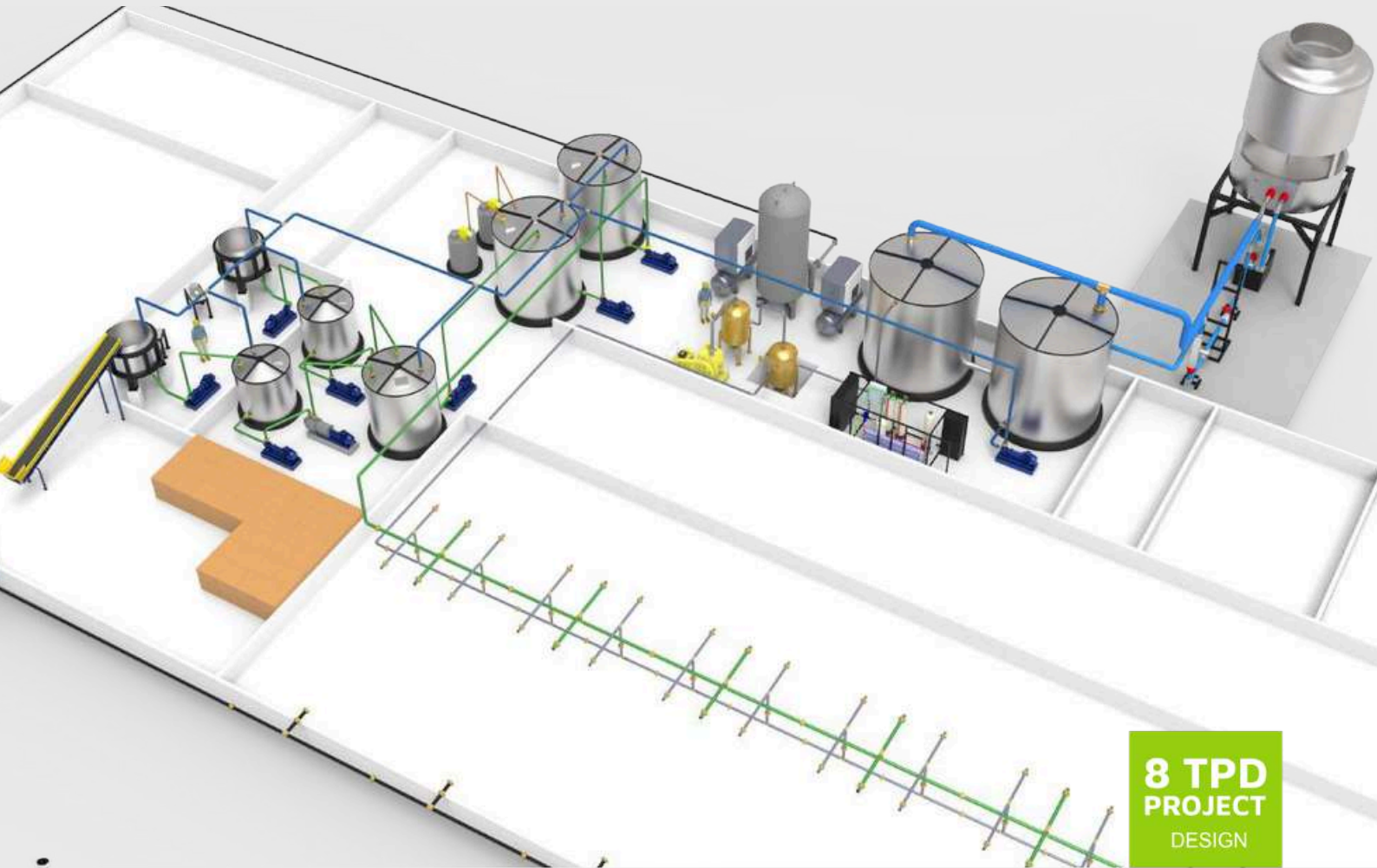


Centric Cleaner System

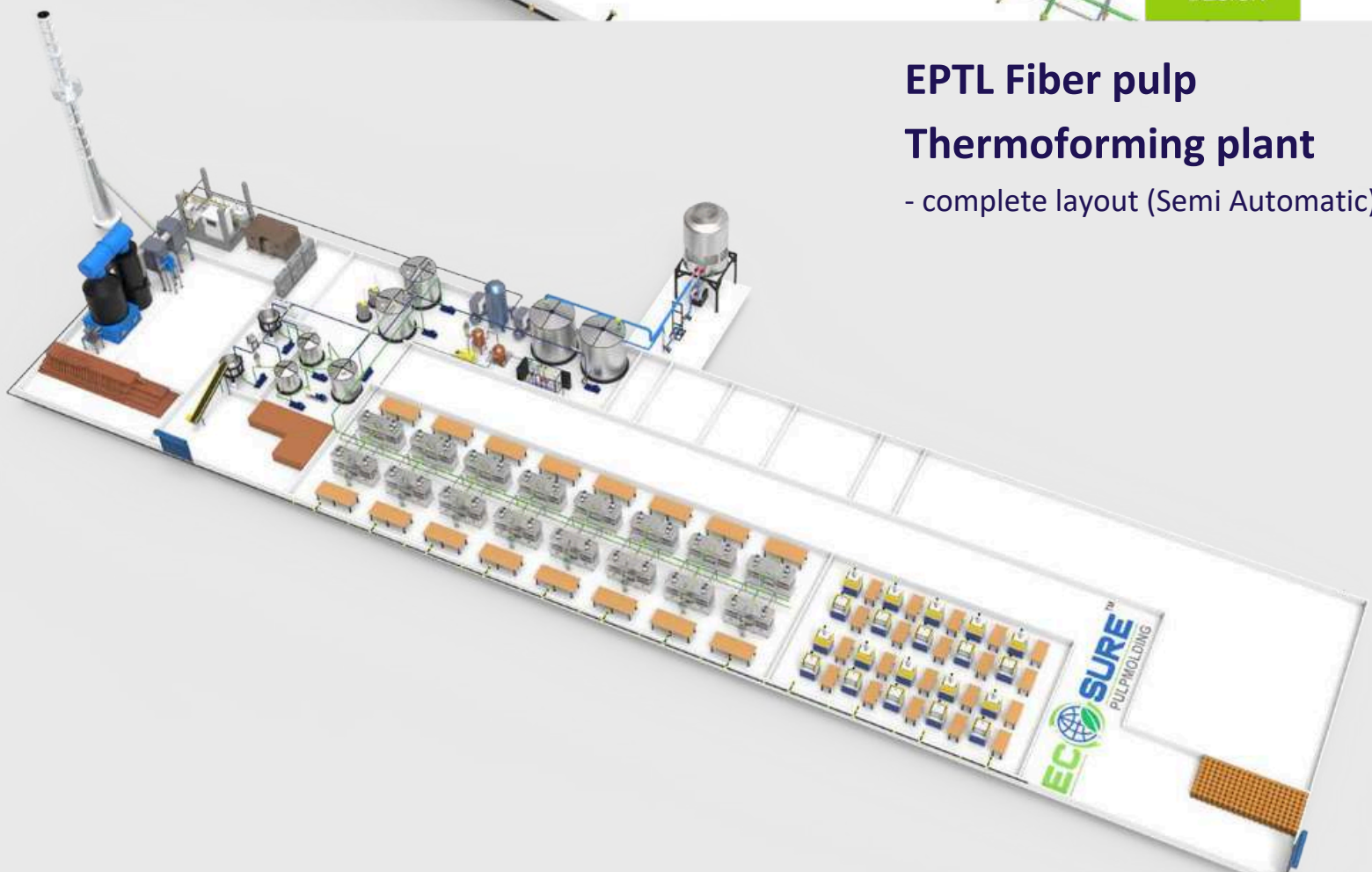


Low Consistency Tank

IntelliFib™ Fiber Stock Preparation System



EPTL Fiber pulp
Thermoforming plant
- complete layout (Semi Automatic)



Low consistency Pulper

Ecosure Low Consistency Pulper rapidly submerges fiber pulp bales/bundles/sheets/broke which results in reduction on in the slushing time, enhanced efficiency of the pulper and power saving.



Application & Features

- D' type design of pulper reduces the sloshing Time.
- Batch operation.
- Operating consistency 4-5%.

TECHNICAL SPECIFICATION

Model	LDP-01	LDP-02	LDP-03	LDP-05	LDP-06
Capacity(m3)	1	2	3	5	6
TPD	1.2-1.5	3	4-5	6-8	10
Power(Kw)	22	30	37	55	75

Tri Disc Refiner (TDR)

EPTL TDR is Improving the Slurry Beating Degree Further to Produce Fine Pulp For Agro Fiber Molding Production Line. The Abrasion Section Contains Two Stationary Serrated Discs on Either Side of a Rotating Disc. Sturdy, Latest Mechanism, Compact, and Most Important the Refiner Plates bar Designs to Specific Application in Fiber Molding Industry. TDR is the Result of concentrate Precision Making this Machine exclusive in the Agro Fiber Molding Production Line.



Pulp Pump / Water Pump

Ecosure Pumps industrial slurry pumps are built for an extensive range of applications including the transfer of Slurry/Water and Backwater generated by Our Production Line. Our non-clog pumps are designed to move slurry, sand, and other materials efficiently and are capable of Making Suitable Pulp For Our Product's. We offer a wide range of models including 3-inch, 4-inch, 6-inch, and 8-inch sizes.



Vacuum Pump

Our vacuum pump's main function is to change the pressure in a contained space to create a full or partial vacuum mechanically. Pressure will always try to equalize across connected regions as gas molecules flow from high to low to fill the entire area of that volume. Therefore, if a new low-pressure space is introduced, gas will naturally flow from the high-pressure area to the new area of low-pressure until they are of equal pressure. Notice this vacuum process is created not by "sucking" gases but by pushing molecules. Vacuum pumps essentially move gas molecules from one region to the next to create a vacuum by changing high and low-pressure states.



Chemical Dosing Tank With Pump

Our dosing pump sucks a predetermined amount of liquid(OGR, AKD) into the pulp chamber and adds the liquid to a process. The pump is driven by an electric motor or an air actuator and has a controller that turns the pump on and off and manages the flow.



Low Consistency Cleaner

Based on decades of experience in pulp molding machine production and pulp stock preparation, Voith developed its LC Cleaner product line. Our customers profit from proven Voith quality in stock preparation and simultaneously lower costs of raw materials. Our LC cleaner products are perfectly matched to each other. Take advantage of our technologies for outstanding pulp Product quality. Low consistency (LC) cleaners are used to remove small contaminants From Pulp Slurry During Production process .



Thermic Fluid Heater (TFH)

A thermic fluid heater is industrial heating equipment, used where only heat transfers are desired instead of pressure. In this equipment, a thermic fluid is circulated in the entire system for heat transfers to the desired processes. TFH is use for drying our pulp molding final products.



Thermic Panel / Distribution MCCB Panel / Automation Panel

Our all panel is specially designed for pulp molding production line. Our panel can control all equipment on/off automation with minimum manpower interference.



FiberFormer™ Thermoforming Molding Machines

Advanced Solutions for Sustainable Molded Fiber Product Manufacturing

Ecosure Pulpmolding Technologies offers a comprehensive range of fiber molding machines to cater to diverse production needs. These machines are designed to produce high-quality biodegradable products, including plates, bowls and trays, from renewable pulp materials

Fully Automatic FiberFormer Machines (ECOFA Series)

EPTL's fully automatic FiberFormer feature highly energy-efficient designs, with all axes driven by servo motors for smooth and precise operation. In contrast, the semi-automatic machines operate using hydro-pneumatic cylinders. This innovative approach significantly reduces energy consumption while maintaining optimal performance.



The integration of advanced technology minimizes waste, contributing to cost savings and environmental sustainability. Furthermore, the precise control provided by servo motors enhances the equipment's reliability and durability, ensuring long-term operational efficiency.

Semi-Automatic Fiber Molding Machine (ECOSA)

The semi-automatic thermoforming machine designed to produce high-quality tableware products made from fiber pulp in slurry form. The machine is equipped with advanced features, making it an efficient solution for manufacturers seeking cost-effective production methods while maintaining high product standards.



The machine's innovative design ensures that the production process is efficient and straightforward. With fewer components and simpler operation, manufacturers can save on maintenance and labor costs, making it an affordable choice for small and medium-sized enterprises.

Fully Automatic Fiber forming Machine

TRIMMING FREE



FIBER FORMER'S TECHNICAL SPECIFICATIONS

S.NO	PARTICULAR	FIBER FORMER -9570	FIBER FORMER-12085	FIBER FORMER -7565	FIBER FORMER -160100
1	PLATEN SIZE	950*700 MM	1200*850 MM	750*650 MM	1600*1000 MM
2	MACHINE SIZE (L*W*H), FOOT PRINT	6500 MM*1850 MM*2800 MM	6950 MM*2100 MM*2900 MM	3500*1550*3450 MM	7400*2500*2900 MM
3	OPERATION TYPE	FULLY AUTOMATIC -SERVO DRIVEN	FULLY AUTOMATIC-SERVO DRIVEN	FULLY AUTOMATIC-SERVO DRIVEN	FULLY AUTOMATIC-SERVO DRIVEN
4	FORMING TYPE	DIP TYPE-RECIPROCATING	DIP TYPE-RECIPROCATING	ROTARY TYPE	DIP TYPE-RECIPROCATING
5	FORMING TANK VOLUME	750 LTRS	1250 LTRS	350 LTRS	1600 LTRS
6	FORMING TANK LEVEL ADJUSTING	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC
7	FORMING MECHANISM MOVEMENT	INTERLOCKED WITH LVDT	INTERLOCKED WITH LVDT	ROTARY ARRANGEMENT	INTERLOCKED WITH LVDT
8	HEATING TYPE	ELECTRIC/THERMIC	ELECTRIC/THERMIC	ELECTRIC/THERMIC	ELECTRIC/THERMIC
9	PRODUCT TYPE	PLATES ,BOWLS,TRAY	MEAL TRAY,PLATES	CONTAINERS, CUPS, PLATES,LID	PLATES , TRAYS
10	PRODUCTION	UP TO 400 KG/DAY	UP TO 800 KG/DAY	UP TO 300 KG/DAY	UP TO 1000 KGS
11	PRODUCT RAW MATERIAL	PULP	PULP	PULP	PULP
12	PRODUCTION /HR (KG)	UP TO 17.5KG /HR	35 KG/HR	13 KG/HR	43 KG/HR
13	AIR CONSUMPTION	30 -35 CFM	35-40 CFM	20-25 CFM	60-70 CFM
14	VACUUM	(-)550 MM HG-POWER 10HP	(-) 550 MM HG POWER -15 HP	(-) 550 MM HG , -7-8 HP	(-) 550 MM HG , 20-25HP
15	POWER LOAD WITH ELECTRIC HEATERS	106 KW	130 KW	65 KW	200 KW
16	RUNNING POWER LOAD	63.6 KW	78 KW	39 KW	120 KW
17	POWER LOAD IN TFH	10 KW	10 KW	5 KW	13 KW
18	PRESSING TONNAGE	40 MT	60 MT	40 MT	60 MT
19	PRESS MECHANISM	CLAMP MECHANISM	CLAMP MECHANISM	CLAMP MECHANISM	CLAMP MECHANISM
20	DRIVE	ALL AXIS SERVO DRIVEN	ALL AXIS SERVO DRIVEN	ALL AXIS SERVO DRIVEN	ALL AXIS SERVO DRIVEN
21	OPERATION CONTROLLER	HMI	HMI	HMI	HMI
22	CYCLE TIME	35-40 SEC	35-40 SEC	25-30 SEC	35-40 SEC
23	HOT PRESS	SINGLE HOT PRESS	SINGLE HOT PRESS	SINGLE HOT PRESS	SINGLE HOT PRESS
24	STAGES	FORMING ,TRANSFERRING, HOT PRESS	FORMING ,TRANSFERRING, HOT PRESS	FORMING ,PRE PRESS, HOT PRESS	FORMING ,TRANSFERRING, HOT PRESS
25	PRODUCT COUNTING	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC
26	PRODUCT STACKING	AUTOMATIC	AUTOMATIC	AUTOMATIC	AUTOMATIC
27	MAN POWER	3 MACHINE/OPERATOR	3 MACHINE /OPERATOR	3 MACHINE/OPERATOR	1 MACHINE /OPERATOR
28	TRIMMING	AUTOMATIC	AUTOMATIC	TRIMMING TO AFTER PRODUCTION	AUTOMATIC
29	SAFETY PROVISION	SAFETY DOOR SENSOR ,AUTOMATIC LOCK	SAFETY DOOR CENTRE ,AUTOMATIC LOCK	SAFETY DOOR SENSOR ,AUTOMATIC LOCK	SAFETY DOOR CENTRE ,AUTOMATIC LOCK
30	MOLD CHOAKING TIME	45-60 DAYS	45-60 DAYS	45-60 DAYS	45-60 DAYS
31	MOC	MS,SS 304, AND ALUMINIUM MOLD(6061)	MS,SS 304, AND ALUMINIUM MOLD(6061)	MS,SS 304, AND ALUMINIUM MOLD(6061)	MS,SS 304, AND ALUMINIUM MOLD(6061)

Semi Automatic Fiber forming Machine



TECHNICAL SPECIFICATIONS

S.NO	PARTICULAR	ECOSA7565	ECOSA10095
1	PLATEN SIZE	750*650 MM	1000*950 MM
2	MACHINE SIZE (L*W*H)	3200*1470*3400 MM	3900*1865*3400 MM
3	OPERATION TYPE	SEMI-AUTOMATIC	SEMI-AUTOMATIC
4	FORMING TYPE	GRAUTING/DIP FORMING	GRAUTING/DIP FORMING
5	HEATING TYPE	ELECTRIC/THERMIC	ELECTRIC/THERMIC
6	PRODUCT TYPE	PLATES ,BOWLS,TRAY	MEAL TRAY,PLATES
7	PRODUCTION	UP TO 300 KG/DAY	UP TO 500 KG/DAY
8	PRODUCT RAW MATERIAL	PULP	PULP
9	PRODUCTION /HR (KG)	UP TO 13 KG /HR	22 KG/HR
10	AIR CONSUMPTION	25 CFM	35 CFM
11	VACUUM	(-)550 MM HG	(-) 500 MM HG
12	POWER LOAD WITH ELECTRIC HEATERS	60 KW	120 KW
13	POWER LOAD IN THERMIC FLUID HEATING	0.3 KW	0.3 KW
14	PRESSING TONNAGE	30 MT	40 MT
15	PRESS MECHANISM	HYDROPPNEUMATIC CYLINDER	HYDROPPNEUMATIC CYLINDER
16	OPERATION CONTROLER	HMI	HMI
17	CYCLE TIME	35-40 SEC	35-40 SEC
18	HOT PRESS	DOUBLE HOT PRESS	DOUBLE HOT PRESS
19	STAGES	FORMING, HOT PRESS, TRIMMING	FORMING , HOT PRESS, TRIMMING
20	PRODUCT COUNTING	MANUAL	MANUAL
21	PRODUCT STACKING	MANUAL	MANUAL
22	MAN POWER	1 MACHINE /2 OPERATOR /SHIFT	1 MACHINE / 2 OPERATOR/ SHIFT
23	TRIMMING	MANUAL	MANUAL
24	MOLD CHOAKING TIME	45-60 DAYS	45-60 DAYS
25	MOC	MS,SS 304, AND ALUMINIUM MOLD(6061)	MS,SS 304, AND ALUMINIUM MOLD(6061)

Semi-Automatic Trimming Machine



Edge Trimming Machines

Particular	UOM	Specifications	
Model No.		ECOETM-5050-8T-HPN	ECOETM-5050-8T-HPN
Machine Types		Down Stroke	Up Stroke
Frame Type	NOS	4-Pillar Type	4-Pillar Type
Pressing Capacity	TON	8	8
Working Table	mm	500x500	500x500
Operational Mode		Semi Automatic	Semi Automatic
Control System		PLC cum HMI	PLC cum HMI
Pressing Force	BAR	6	6
	cfm	12	12
Connected Load	KW	0.3	0.3
Cylinder Type		Hydropneumatic	Hydropneumatic

More Details

Heating Options

- Electric Heated Machines: Built-in electric heating systems provide consistent, energy-efficient operation, ideal for standard production needs.
- Oil Heated Machines: Utilize a thermic fluid heater for operation, offering higher heating capabilities suited for specialized applications.
- Hybrid Heating Machines: Combine electric and oil heating systems, providing flexibility and adaptability for diverse production demands.
- Precise Temperature Control: Integrated temperature monitoring ensures uniform heating, reducing defects and improving product quality.

Production Molds

- Designed for Specific Product Shapes and Sizes: Tailored to create a wide range of shapes and dimensions for diverse product needs.
- High-Grade Materials: Constructed using AL6061 aluminum and SS304 stainless steel for exceptional durability and precision.
- Customizable Features: Fully customizable to meet client specifications, including product weight, depth, and surface finish.
- Enhanced Efficiency: Optimized design for faster production cycles and reduced material wastage.



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 ECOPACK LLP		
		 ECOPACK PVT.LTD.
	INTHAI INNOVATION THAILAND	

Till Now 41++ Project Installed, included 400++ Made In India Machine

MANUFACTURING UNITS

Corporate Office

27, Block B, Sector 132, Noida, Shahpur Govardhanpur Bangar, Uttar Pradesh 201304

Factory 1

256, Sector E Sanwer Road Indore, Madhya Pradesh 452015

Factory 2

Factory no. 251/1 Sector-C Sanwer Road

Our Agents - EcoWarriors



Country Representatives are Regional EcoWarriors in good standing who are appointed by the EPTL Board of Directors to facilitate the communication between the organization and global clients.



“
a sustainable world means working
together to create prosperity for all.
”



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