



SATYAJIT GREENTECH

PRODUCT CATALOGUE





Why us?

India's diversity is our strength. From different regions, climates, and crops to varied biomass types—our machinery is designed to perform **anywhere in India.**

With minimal changes, our production line can adapt to **any location and any type of agricultural biomass**, making it a truly versatile and reliable solution for all clusters.

Our success across the country proves one thing: when technology meets adaptability, performance knows no boundaries.

ONE MACHINE, ENDLESS POSSIBILITIES - BUILT FOR INDIA

With over **20 years of biomass pellet manufacturing expertise** and **49 years of engineering innovation**, we've developed a **simple yet powerful** technology trusted across national and international markets.

Our machines are a perfect blend of experience and engineering, delivering high performance, durability, and adaptability to real-world biomass conditions.

As **India's only 100% in-house manufacturer** of Vertical Ring Die Pellet Machines and spare parts, we ensure total quality control and flexibility to fine-tune machines as per different biomass inputs.

Engineered by experience. Driven by innovation. Trusted worldwide.

Our Motto

We are committed to delivering the **most advanced, user-friendly, and cost-effective technology** in the biomass pelleting industry.

Our goal is to ensure that even a first-time user **can operate our machines with ease**. We also prioritize **minimal operational costs**, so that converting biomass into pellets remains highly economical.

We strongly believe in supporting our customers beyond sales—with reliable **after-sales service** and **technical guidance** readily available to anyone in need.

Every single spare part shall be manufactured **in-house** and supplied at a **reasonable price**, ensuring long-term value and hassle-free maintenance.



**COST
EFFECTIVE**



**LESS
MAINTENANCE**



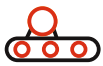
**EASY
OPERATION**



**LOW COST
PROCESSING**



**INHOUSE
PRODUCTION**



**FULLY
AUTOMATIC**



**AFTER
SALES SERVICE**



**SPARES
AVAILABILITY**



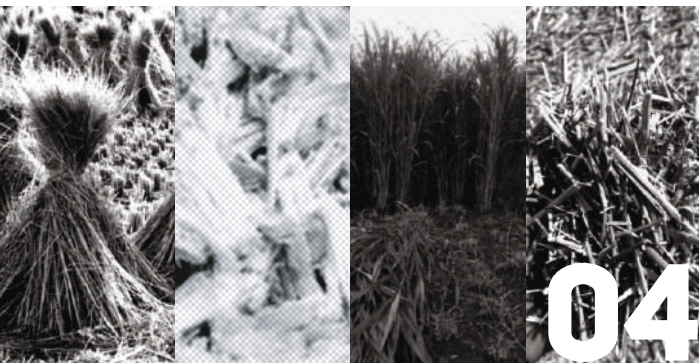
**QUICK
REPAIR**



**LESSER
DROP DOWNS**

यह देश का फ्यूल है और यह
हम सबकी जिम्मेदारी है कि
हम देश का फ्यूल शुद्ध एवं
सस्ता करें।





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**From Concept to Commissioning
— We Handle It All**



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RAW MATERIALS

Every Raw Material Needs Different Machines Depending Upon It Size, Shape And Moisture.

Each material needs to be hammered/powdered and dried upto 10-15% moisture to make pellets from it.

To decide the machine, one needs to decide his raw material.

- Mustard Husk
- Ground Nut Shells
- Soya Bean Husk
- Chick Pea Husk
- Juliflora

- Press Mud
- Bagasse
- MSW
- RDF
- Cotton Dust

- Rice Husk
- Sawdust
- Wood Chips
- Wood Shavings
- Tree Bark
- Pine Needles
- Napier Grass
- Bamboo
- Veneer Waste

- Paddy Straw
- Sugarcane Leaves
- Maize Stalks
- Wheat Straw
- Cotton Stalks
- Arhar Stalks
- Almond Shells

And Many More...

जो बायोमास जल सकता है
वो सब चल सकता है |

- SATYAJIT GREENTECH PVT LTD





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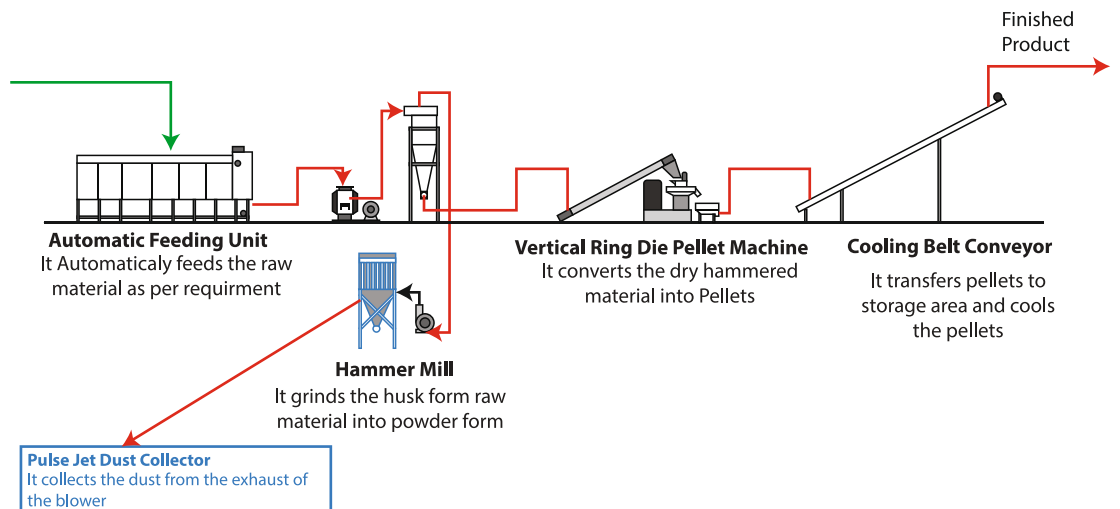
Machinery line changes according to raw material shape, size and moisture and capacity.

TYPE 1

Input Raw Material	
Biomass	Any
Shape	Husk Form
Size	< 50 mm
Moisture	< 10 %

Example:

Mustard Husk
Rice Husk
Soyabean Husk
Toor Husk
Chickpea Husk
Coriander Husk
Cotton Stalks (In cutting form)
Arhar Husk
Groundnut Shells
Tuar Husk



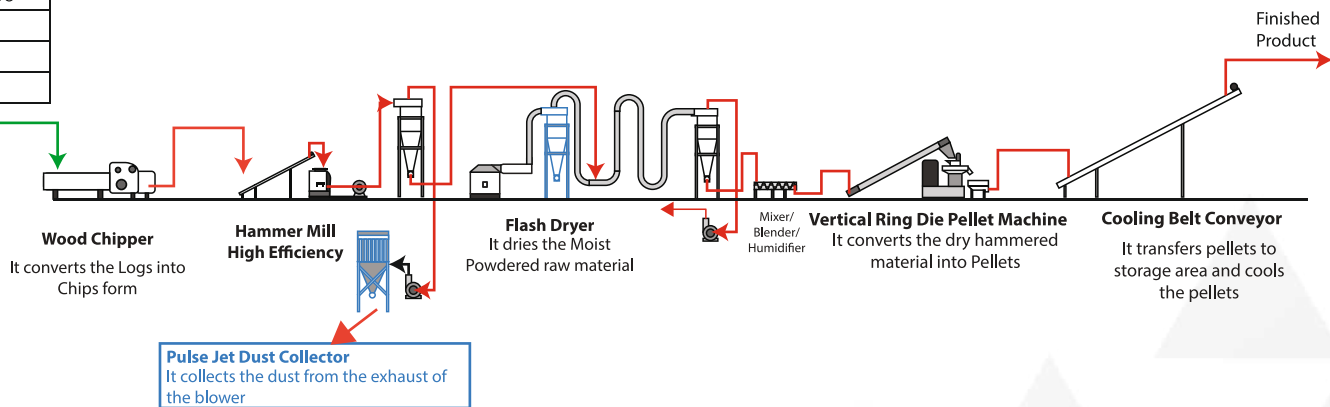
TYPE 2

Input Raw Material	
Biomass	Wood/Bamboo
Shape	Logs
Size	< 300 mm
Moisture	< 50 %

Example:

Wood Logs
Bamboo

**SATYAJIT DO NOT
PROMOTE USE OF FORESTS.**

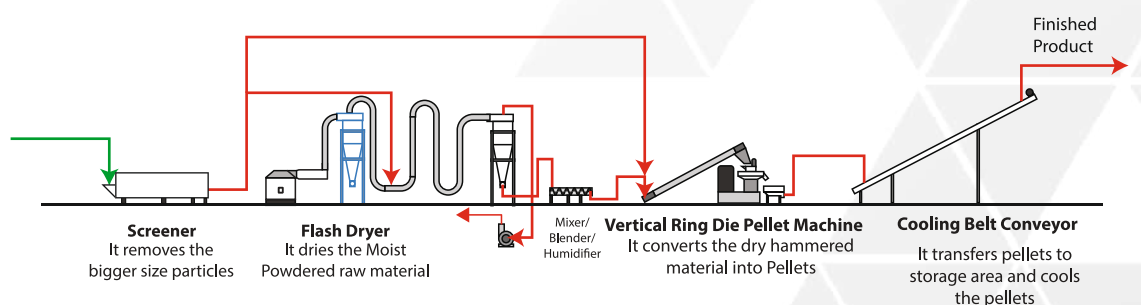


TYPE 3

Input Raw Material	
Biomass	Any
Shape	Powder form
Size	< 8 mm
Moisture	< 50 %

Example:

Sawdust
Pressmud
Rice Husk



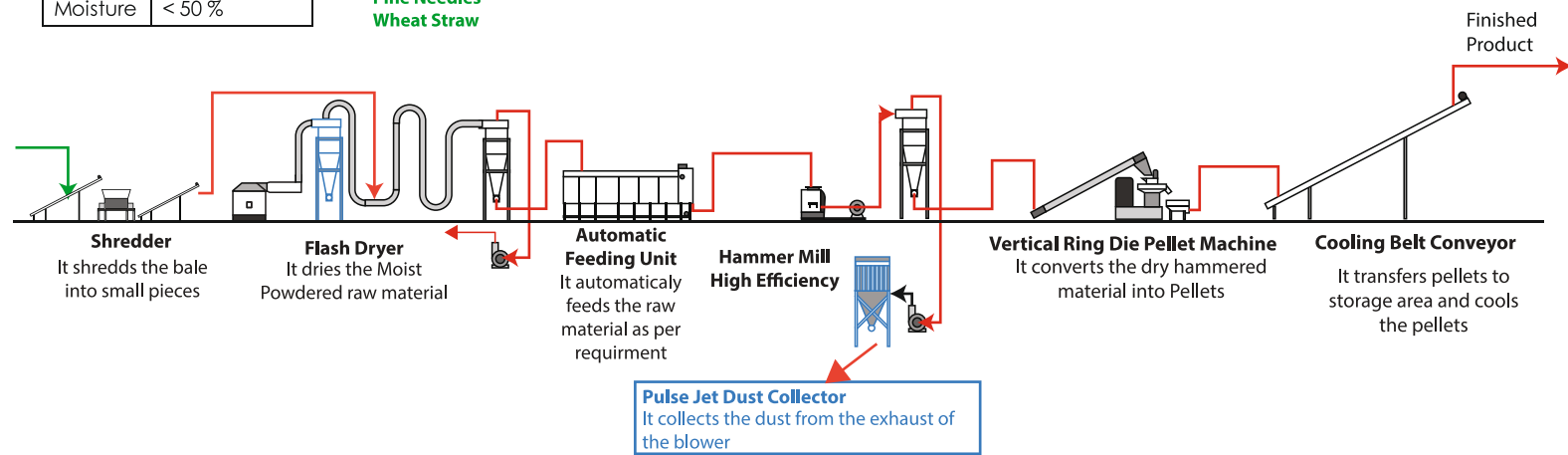
Machinery line changes according to raw material shape, size and moisture and capacity.

TYPE 4

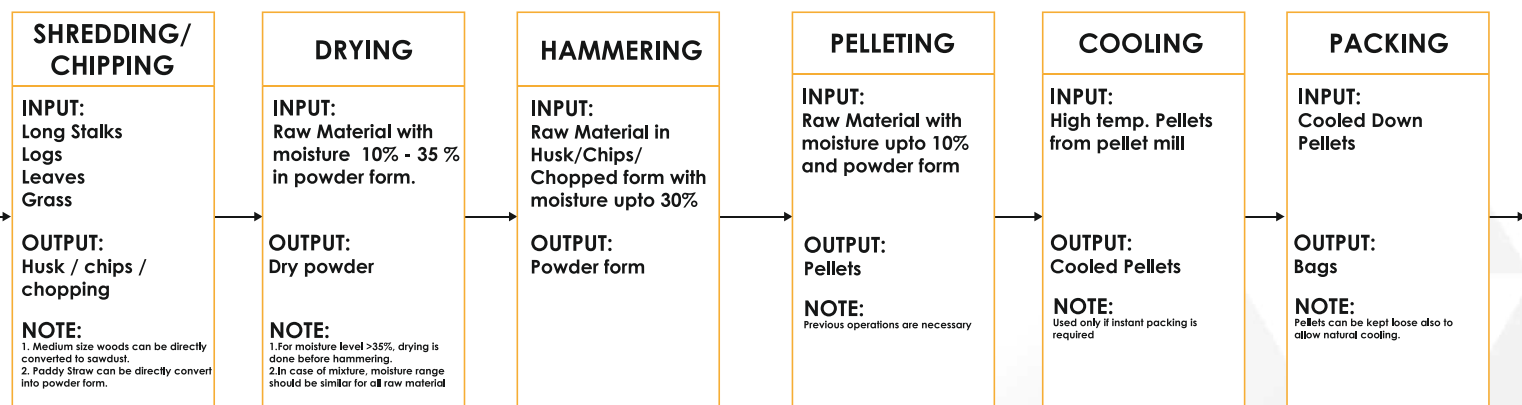
Input Raw Material	
Biomass	Any
Shape	Straw form
Size	< 450 mm
Moisture	< 50 %

Example:

Paddy Straw (In Open Bale Form)
 Sugarcane Trash (In Open Bale Form)
 Bagasse
 Wood Chips
 Pine Needles
 Wheat Straw



General Flow:



OUR SERVICES

- Turnkey Solutions of machinery
- Plant Design and Layout
- Machine Service, Repair and Maintenance
- Installation and Commissioning
- Operater Training
- Plant Operation Guidance
- Raw Material Handling Solutions
- Spare parts Availability

SGT VERTICAL RING DIE PELLET MACHINE



The SRDP series vertical ring die pellet machine is different from other horizontal ring die machines, this machine has a vertical structure, easy for biomass materials feeding, big pressure, big capacity and stable working. It is a high efficiency equipment for biomass pellet production.

This equipment is good at pressing both light density or hard materials, such as pressing the rice husk, hardwood sawdust etc.

Input Raw Material	
Biomass	Any
Shape	Powder
Size	< 8 mm
Moisture	10-15 %

Model	Power (HP)	Capacity (Kg/hr)
SRDP-560	123	900 -1200
SRDP-560P	185	1500 -2000
SRDP-780P	222	2000 -3000
SRDP-850P	345	3000 -4000



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SGT VERTICAL RING DIE PELLET MACHINE



KEY FEATURES



VFD Drive for Main Motor
(Control the speed of main motor to ensure desired production and RPM speed)



Double Sensor Sytsem
(Oil pressure and RTD temperature meter with Auto-Trip Feature for machine safety)



PLC, HMI (WIFI, IoT), Remote Data Monitoring System
(Needed in Govt. Subsidy)



Double Cooling System
(Air and water based oil cooling for long life for the machine)



Siemens (Innomotics) /ABB/ CG / BBL Motor
(Higher Rating Motors for more power saving)

Hammer Mill Unit



The use of hammer mill technology to grind the bigger size husks (up to 50 mm size) into powder form. There are symmetrical operation doors and safety interlocks on both sides. It is smaller in size but efficient enough to meet the customer requirements. Output size of the raw material can be changed by changing the sieve used for screening. The operation doors are helpful to renew the sieve plate and hammers, also helpful for checking up and debugging.

This series hammer mill has reasonable structure, sturdy and durable use, safety and dependability, simple installation, easy operation, least vibration, high efficiency etc

Input Raw Material	
Biomass	Any
Shape	Husk
Size	< 50 mm
Moisture	10 -15 %

Model	Power (HP)	Capacity (Kg/hr)		
		4 mm	6 mm	8 mm
SGT-G2400	81	1000 - 1500	1500 - 2000	2000 - 2500
SGT-G3000	103	1500 - 2000	2000 - 2500	2500 - 3000
SGT-G3600	153	2500 - 3000	3000 - 3500	3500 - 4000

X TYPE HAMMER



The X-type hammer mill is a groundbreaking innovation in paddy processing, transforming the way paddy is converted into powder. This high-performance machine combines efficiency, precision, and durability to deliver exceptional results. With its unique X-shaped rotor design, the hammer mill ensures even distribution of paddy throughout the milling chamber, resulting in consistent and uniform powder. The powerful impact force of the hammers efficiently pulverizes the paddy, producing fine powder suitable for various applications. The X-type hammer mill is also designed with a robust construction, ensuring long-lasting performance and minimal maintenance requirements.

Input Raw Material	
Biomass	Any
Shape	Straw
Size	< 1- 1.5 ft
Moisture	< 40 %

Model	Power (HP)	Capacity (Kg/ Hr)
SGT-HMX-3T	148	1500 - 2000
SGT-HMX-4T	248	2000 - 3000
SGT-HMX-5T	335	3000 - 3500

DRUM WOOD CHIPPER



SDC series Drum Wood Chipper is one kind of special equipment for producing wood chips, widely used in the raw material preparing process in the factories of flakeboard (shaving board/particle board), fiberboard, papermaking and wood chips making plant.

Easy operation, simple maintenance, lifelong and the low noise. This wood chipper would be the best choice for factories and families which deal with wood scraps.

Drum wood chipper is composed of a base, blade roller, upper and nether (below) feeding organization, feeding equipment, hydraulic press cushion system and electric control system.

Input Raw Material	
Biomass	Wood
Shape	Logs
Size	< 300 mm
Output	upto 25 mm

Model	Power (HP)	Capacity (Kg/hr)
SDC-S6000 (216)	90	2500 - 3000
SDC-S8000 (218)	175	4000 - 8000

SHREDDER



Industry leading designs and automatic reversal system for load protection makes it the best Twin shaft shredder. It is completely made of high grade steel to provide wear resistant and energy efficient operation. Its innovative cutter locking design provides high torque at low speed.

Along with User friendly operation and robust design it has low maintenance cost and operation cost. For the best performance, a triple reduction gearbox box is aligned with the body on a single fabricated base.

It can be used for several materials like wood, biomass, industrial waste etc.

Input Raw Material	
Biomass	Any suitable
Shape	Straw, Straw, Bale
Size	Variable
Output	upto 50 mm

Model	Power (HP)	Capacity (Kg/hr)
SGT-SH42208	80	1500 - 2000
SGT-SH42210	120	2000 - 3500
SGT-SH42212	150	3500 - 5000
SGT-SH42214	240	5000 - 8000
SGT-SH42216	300	7000 - 10000



ROTARY DRUM DRYER



The rotary drum dryer machine is a vital solution for efficient moisture elimination from a diverse range of materials. With its cylindrical design and rotating mechanism, this tool excels in industrial drying processes across sectors like agriculture and manufacturing.

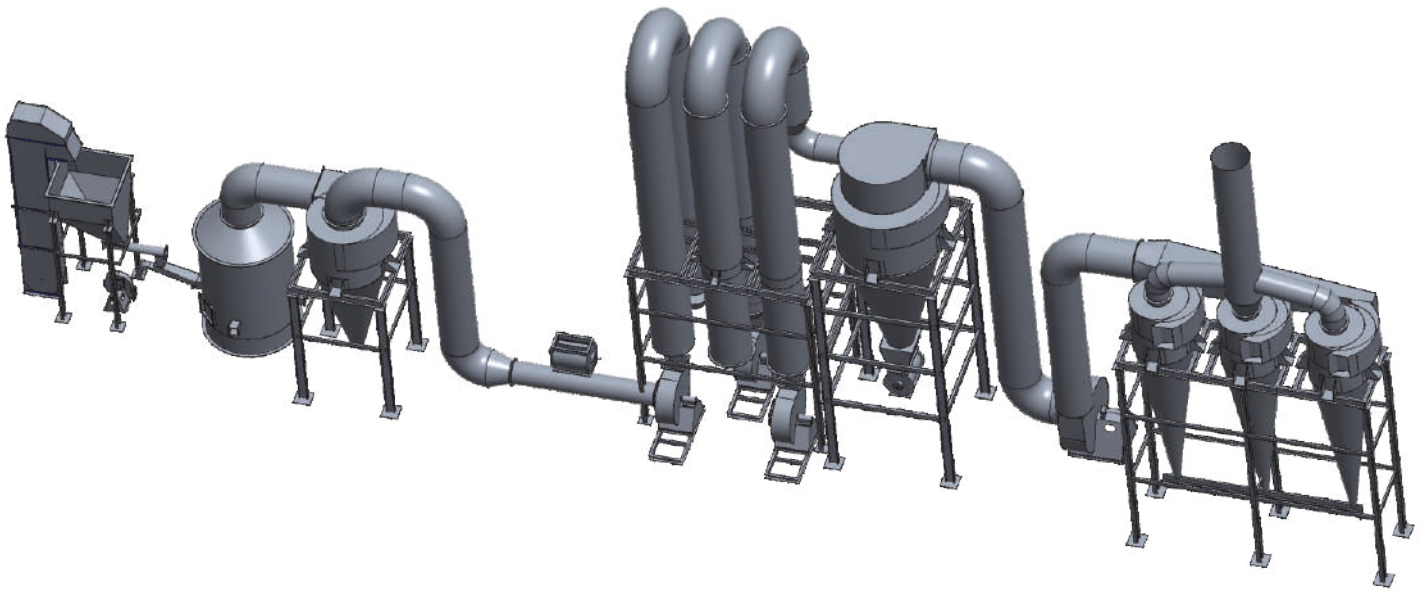
By introducing heated air into a rotating drum, the machine evaporates moisture from materials as they pass through, drastically reducing drying times. Its adaptability spans from grains to biofuels, ensuring even drying thanks to consistent heat and airflow exposure.

Temperature and speed controls are pivotal, allowing fine-tuning for specific materials. Safety features prevent issues, and prevention mechanisms curb material buildup.

Input Raw Material	
Biomass	Any
Shape	Powder
Size	< 20 mm
Moisture	< 65 %

Fact: Rotary Drum Dryer is always designed and simulated according to the Input Raw Material, it's shape, size and moisture content and Output specification requirement. All the parameters like shape, size, weight, power requirement, fuel requirement etc. vary accordingly.

FLASH DRYER



SGT-FD dryer with heating furnace, feed port, rotating drum/ cyclic nodes, delivery pipe, dust collector and discharge port. Wet material is continuously sent to the drum tube by a conveyor. Hot air makes full contact with the material. Being delivered and scattered by the high-speed hot air, water in the wet material evaporates. The material gets fully dried in the rotating drum / cyclic nodes. The dryer is widely used in industries like biomass fuel, wood pellet fuel, sawdust briquette, farming etc.

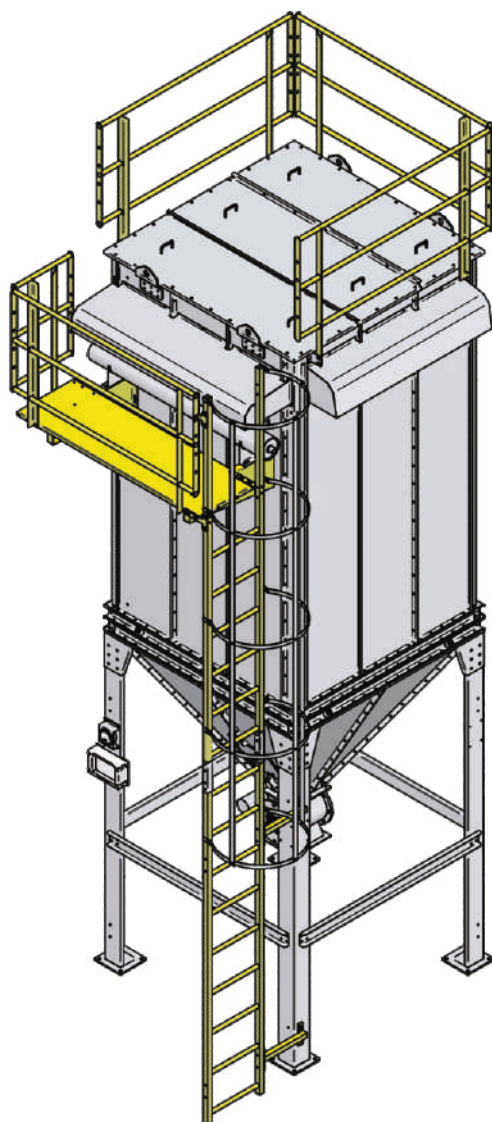
Pros: Economical
 Low conversion cost
 Suitable for Low moisture content

Basic Design
 Easy to operate
 Low Lenergy Requirement

Input Raw Material	
Biomass	Any
Shape	Powder
Size	< 10 mm
Moisture	< 40%

Fact: Flash Dryer is always designed and simulated according to the Input Raw Material, it's shape, size and moisture content and Output specification requirement. All the parameters like shape, size, weight, power requirement, fuel requirement etc. vary accordingly.

BAG FILTER



Bag filters are devices that remove particulate matter from a air stream by passing the gas through a porous fabric that traps the particles.

Bag filters consist of a number of cylindrical bags made of various materials, such as woven or felted fabrics, that are attached to a tube sheet in a housing. The air enters the housing and flows through the bags, leaving behind the dust on the inner surface of the bags. The clean gas exits through the outlet. The dust is periodically removed from the bags by a cleaning mechanism, such as reverse air, pulse jet, or shaker, depending on the type of bag filter. The dust is then collected in a hopper and disposed of or recycled.

Bag filters have high collection efficiency, low operating costs, low maintenance requirements, and can handle a wide range of air temperatures and dust characteristics.

Input Raw Material	
Biomass	Any
Shape	Powder
Size	< 1 mm
Output	Clean Air

Model	Power (HP)
SGT-BF01	1
SGT-BF02	8.5
SGT-BF03	9
SGT-BF04	11

CONNECTING CONVEYORS



Connecting conveyors link two or more conveyor systems together, allowing for the continuous and efficient transport of materials. Connecting conveyors can be used to bridge gaps, change directions, or merge or split conveyor lines. They are often adjustable in height, angle, and speed, and can be customized to suit different applications and environments.

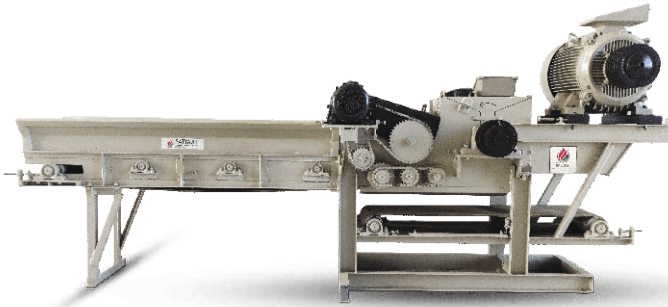
Connecting conveyors are essential for optimizing the workflow and productivity of various industries, such as manufacturing, warehousing, logistics, and packaging. They can reduce labor costs, improve productivity, enhance safety, and optimize space utilization.

Input Raw Material	
Biomass	Any
Shape	Any size
Size	Any size
Ouptut	-



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AUTOMATIC FEEDING UNIT



SAWDUST MACHINE

COUNTER FLOW COOLING SECTION



PACKING MACHINE

And Many More

Rotary Screener

Vibrating Screener

Dewatering Machine

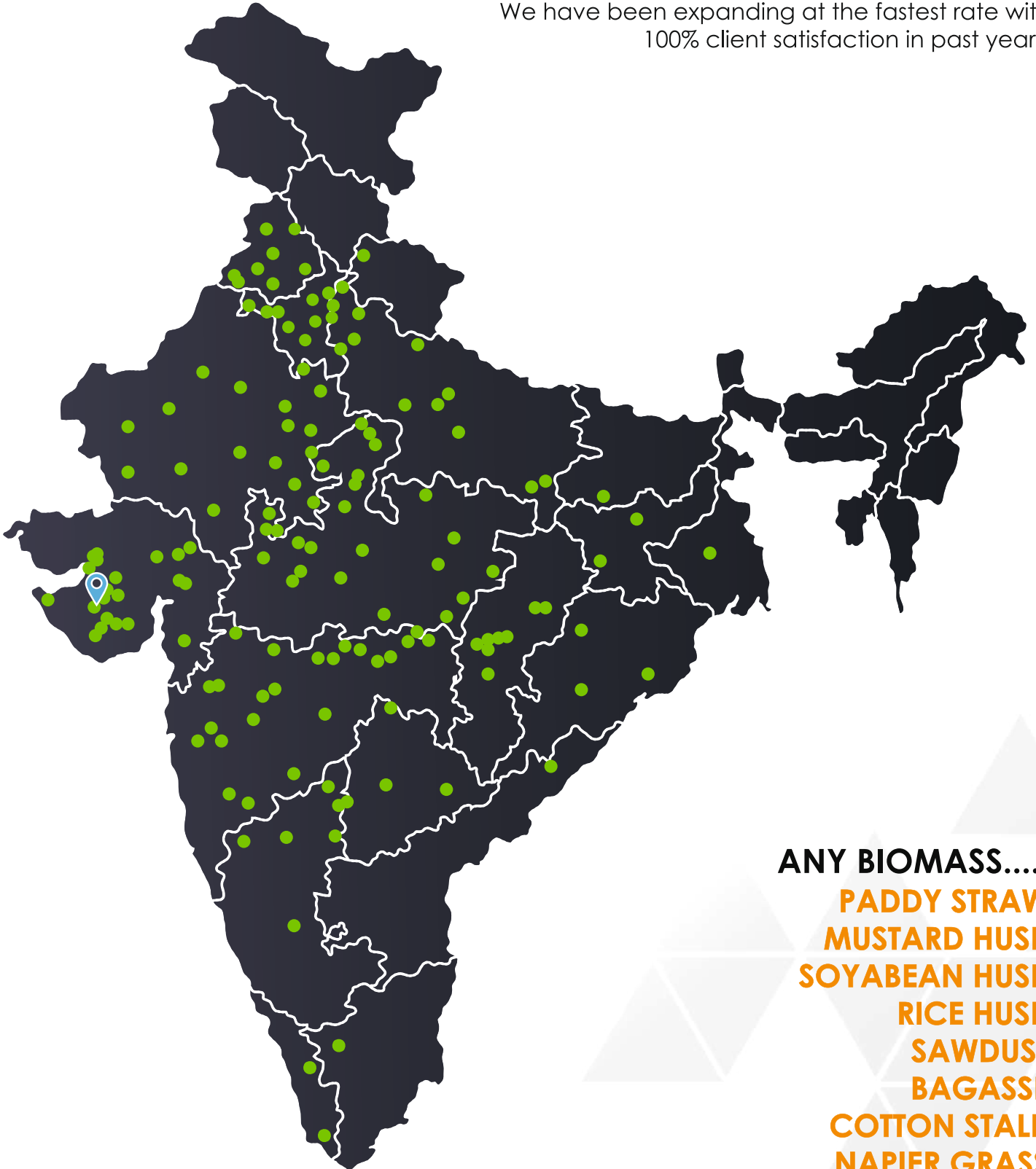
Buffer Storage Silos



SATYAJIT
GREENTECH

over **350+**
successful customers

We have been expanding at the fastest rate with
100% client satisfaction in past years.



ANY BIOMASS.....

PADDY STRAW
MUSTARD HUSK
SOYABEAN HUSK
RICE HUSK
SAWDUST
BAGASSE
COTTON STALK
NAPIER GRASS

WE PROVIDE TURNKEY SOLUTION



**SATYAJIT
GREENTECH**

INDIA'S MOST ADVANCE MANUFACTURING PLANT FOR BIOMASS PROCESSING MACHINERY

Built Under One Roof



CNC & VMC Machines

High-precision machining for dies, rollers, and critical components.

Dedicated Machine Testing Centre

Every machine undergoes rigorous performance and endurance testing before delivery to ensure optimum output and reliability.

Heavy Duty Lathe & Boring Machines

Turning and drilling of large shafts and ring dies.

Strict Quality Control at Every Stage

Standard inspections for dimensions, finish, and performance, ensuring zero-defect manufacturing.



Delivered as One Solution



Plasma Cutting & Bending Units

Automated sheet cutting and shaping for frames and housings.



Specialized In-House Departments

Machining Unit
Fabrication & Welding Unit
Coloring & Finishing Booth
Assembly Unit
Dispatch & Logistics



Robotic Welding & Finishing Lines

Consistent weld quality with superior surface finishing.

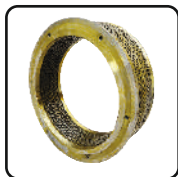


End-to-End Manufacturing Under One Roof

Complete control over quality, faster lead times, and consistent innovation.

VERTICAL RING DIE SPARE PARTS

Manufacturer of all types of spare parts of Vertical Ring Die Pellet machine



RING DIE



ROLLER ASSEMBLY



ROLLER SHELL
(NORMAL)



ROLLER SHELL
(WELDED)



ROLLER BEARING



OIL SEAL



ACENTRIC SHAFT



ROLLER UPPER
FLANGE



ROLLER DOWN
FLANGE



ROLLER BEARING
BUSH



MAZE RING



ROLLER FLAP



DIE CLAMP



AUTOMATIC GREASE
PUMP



ROLLER SHELL
INNER SPACER



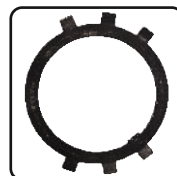
OIL FILTER



SOFT STARTER



RADIATOR



CIRSLIP



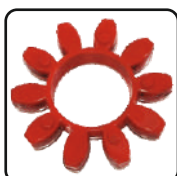
GREASE PIPE
SMALL



GREASE PIPE BIG



MOISTURE METER



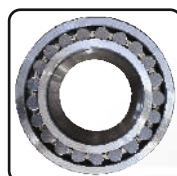
STAR RUBBER



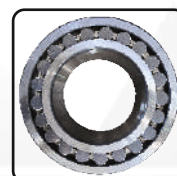
4 BAG DUST
COLLECTOR



GREASE BUCKET



MAIN SHAFT
BEARING



GEARBOX BEARING



OIL PIPE SET

For Spare Parts:
+91 90990 88884
+91 89808 06767

HAMMER MILL SPARE PARTS



BITTER



BITTER ROD



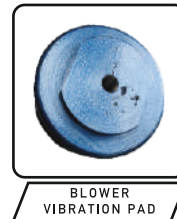
SCREEN



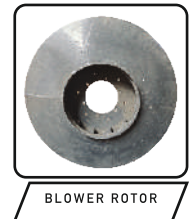
LINER PLATE



HAMMER MILL
VIBRATION PAD



BLOWER
VIBRATION PAD



BLOWER ROTOR



AIRLOCK
LEATHER



V BLET C-165



CLAMP



PILLOW
PEDESTAL S-164



BEARING 22314



PEDESTAL
P-204



PEDESTAL
P-208



PEDESTAL
T-208



PEDESTAL
F-211



PEDESTAL
F-209



Special Steel
Bitter



Bitter



Bitter

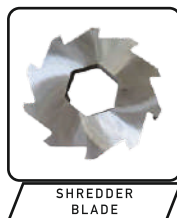
OTHER SPARES:



WOOD CHIPPER
BLADE



SAW DUST
MACHINE BLADE



SHREDDER
BLADE

**Strong machines deserve
stronger partners**
- that's why we build our spares



SATYAJIT GREENTECH

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