

SERVODAY GROUP PRESENTS

BIOMASS & WOOD PELLET PLANT

ON TURNKEY BASIS

DESIGN

MANUFACTURING

INSTALLATION

COMMISSIONING

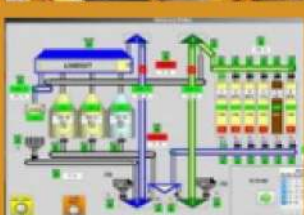


WWW.WOODPELLET.IN



Since 1970

BIOMASS & WOOD PELLET PLANT



VISION

To provide cost - effective, highest quality, technically advanced & environmentally friendly solutions to our client's individual Biomass & Wood Pellet Plant requirements in the fastest timescale utilizing the latest designs, materials & through the most efficient administrative & manufacturing procedures.

WOOD & BIOMASS MATERIALS

Pine Wood Saw Dust Pellet - Hard Wood Saw Dust Pellet - Soft & Hard Wood Chips Pellet - Peat Tourbe Pellet - Rice Straw Pellet - Corn (Maize) Cobs Pellet - Rice Paddy Pellet - Coffee Shell Pellet - Cotton Hull Pellet - Soya Husk Pellet - Sugarcane Bagasse Pellet - Almond Shell Pellet - Macadamia Nut Shell Pellet - Palm Kernel Shell Pellet - EFB Palm Empty Fruit Bunch Pellet - Prosopis Juliflora Pellet - Fire Wood Pellet etc.

PELLET PRODUCTION CAPACITY

2
TPH

5
TPH

10
TPH

20
TPH



TURNKEY SOLUTION

We supply complete Wood, Feed & Biomass Pellet Production Plants on Turnkey basis, from concept to commissioning, the service include site Layout, Design, Manufacturing, Handling, Storage, Building, Power, Water, Installation, Testing, Commissioning, Training and Support.



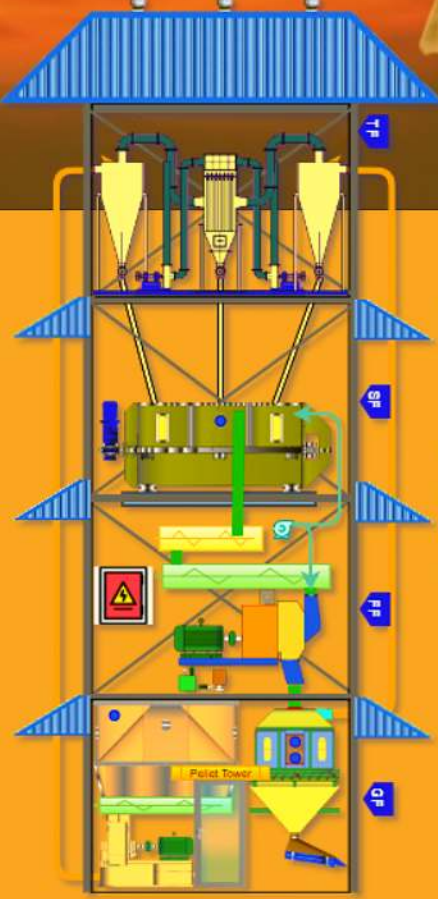
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VISIT OUR WEBSITE OR CALL US ON + 91 94 272 10483 OR
EMAIL US ON INFO@SERVODAY.COM



Servoday Group Presents

WOOD & BIOMASS FUEL PELLET PLANT ON TURNKEY BASIS



PELLET TOWER

India produces a large amount of biomass material under its agriculture, agro-industry and forestry activities.

Some of these materials are used for fodder and fuel in the rural economy. However, studies show that at least 200 million tons of this biomass material is of little use and can be alternatively used as a fuel at a cheaper rate.

FEATURES:

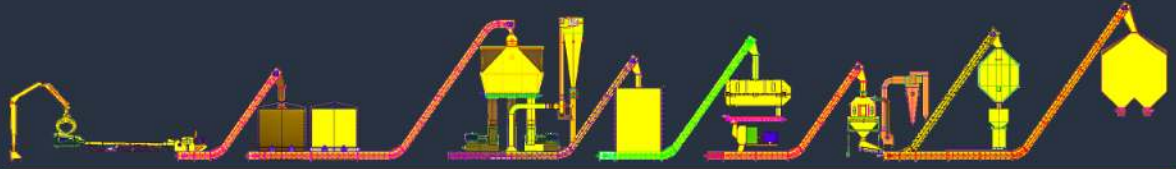
- State Of The Art Module Technology
- Less Manpower - Less Electricity- Less Land Required
- Less Installation Time - Less Handling Equipment
- Less Maintenance Expense
- Lower Production Costs
- No Shed or Building Required - Less Fire Hazard
- No Major Foundation Required
- Optimal Use Of Gravity To Reduce Handling Equipment
- Advanced Applicability
- High Degree Of Automation

DESIGN → MANUFACTURING → INSTALLATION → COMMISSIONING

SERVODAY PLANTS & EQUIPMENTS LIMITED – AHMEDABAD – JAMNAGAR

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**NOW THERE IS NO NEED TO BURN THE STRAW OF THE FIELD
INSTALL WOOD AND BIOMASS FUEL PELLET PLANT
AND MAKE PROFIT OF CRORES BY USING THE AGRO BIOMASS PROPERLY**



LOW PRODUCTION COST = HIGH PROFIT

**2
TPH**

MORE THAN

2 CRORE PER YEAR*

MORE THAN
5 CRORE PER YEAR*

**5
TPH**

**10
TPH**

MORE THAN

10 CRORE PER YEAR*

* बाजार के अधीन

PELLET PLANT SUITABLE TO RUN WOOD AND BIOMASS MATERIALS



- Saw Dust - Wood Chips - Fire Wood - Hard Wood - Soft Wood - Babool Tree Wood
- Eucalyptus Wood - Sugarcane Bagasse- Castor Seed Shell - Castor Stick - Coconut Wastes
- Coffee Husk - Coir Pith - Corn Cobs - Corn Dental Stick - Cotton Stalk & Shell- Groundnut Shell - Lemon Grass - Mulberry Stick - Rice Husk - Sugar Cane Leaves - Sun Flower Stalk - Sweet Sorghum Stalk - Tobacco Waste- Gum Arabic Tree Wood - Paddy Straw - Mustard Shell & Stalk - Barks Wood - Wheat Straw
- Soya Bean Husk - Jute Waste - Cashew Husk
- Palm Husk - Bamboo Dust - Napier Grass
- Forestry Waste - Rice Straw - Tea Waste
- Rapeseed Stalk & Many More

TURNKEY SOLUTION

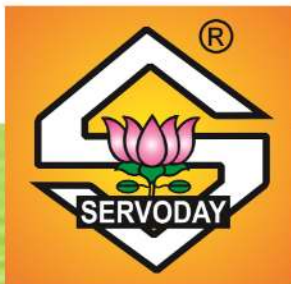
We supply complete Wood & Biomass Pellet Production Plants on Turnkey basis, from concept to commissioning, the service include Site Layout, Design, Manufacturing, Handling, Storage, Building, Power, Water, Installation, Testing, Commissioning, Training and Support.



WE DELIVER SOLUTIONS **TURNKEY** WOOD & BIOMASS PELLET PLANT

WHO WE ARE?

GROW started 50 years ago and since then we helped companies around the world to become what they are today.



WHAT WE DO?

We are specialized in rising your business income by bringing in world class technology to your door step.

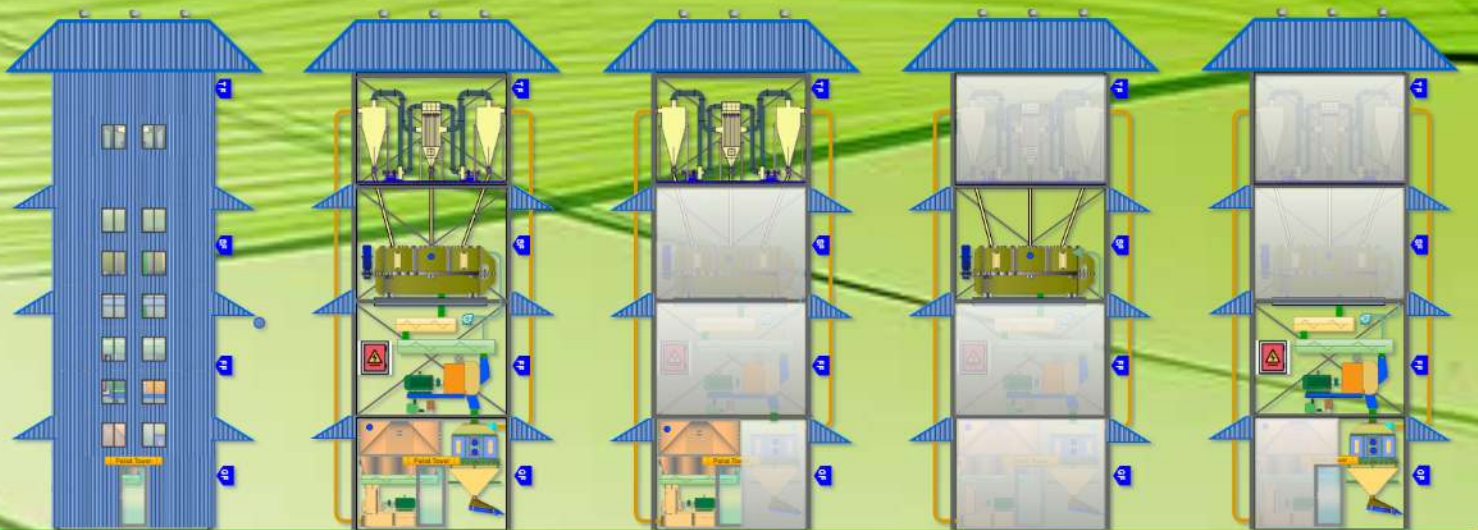


**GUARANTEED
PELLET OUTPUT**

**FULLY
AUTOMATIC
PLANT**

**2 OPERATOR
CAN RUN
PLANT/SHIFT**

**NO BUILDING
REQUIRED**



**STEATE OF THE
ART MODULE
TECHNOLOGY**

**MINIMAL
PLANT
ERECTION TIME**

**LESS POWER
CONSUMPTION**

**HIGH DEGREE OF
AUTOMATION
WITH HMI & PLC**

**LESS MATERIAL
HANDLING
EQUIPMENTS**

**LESS
PRODUCTION
COST**

**NO MAJOR
FOUNDATION
FOR MACHINERY**

**LESS
MACHINERY
MAINTENANCE**

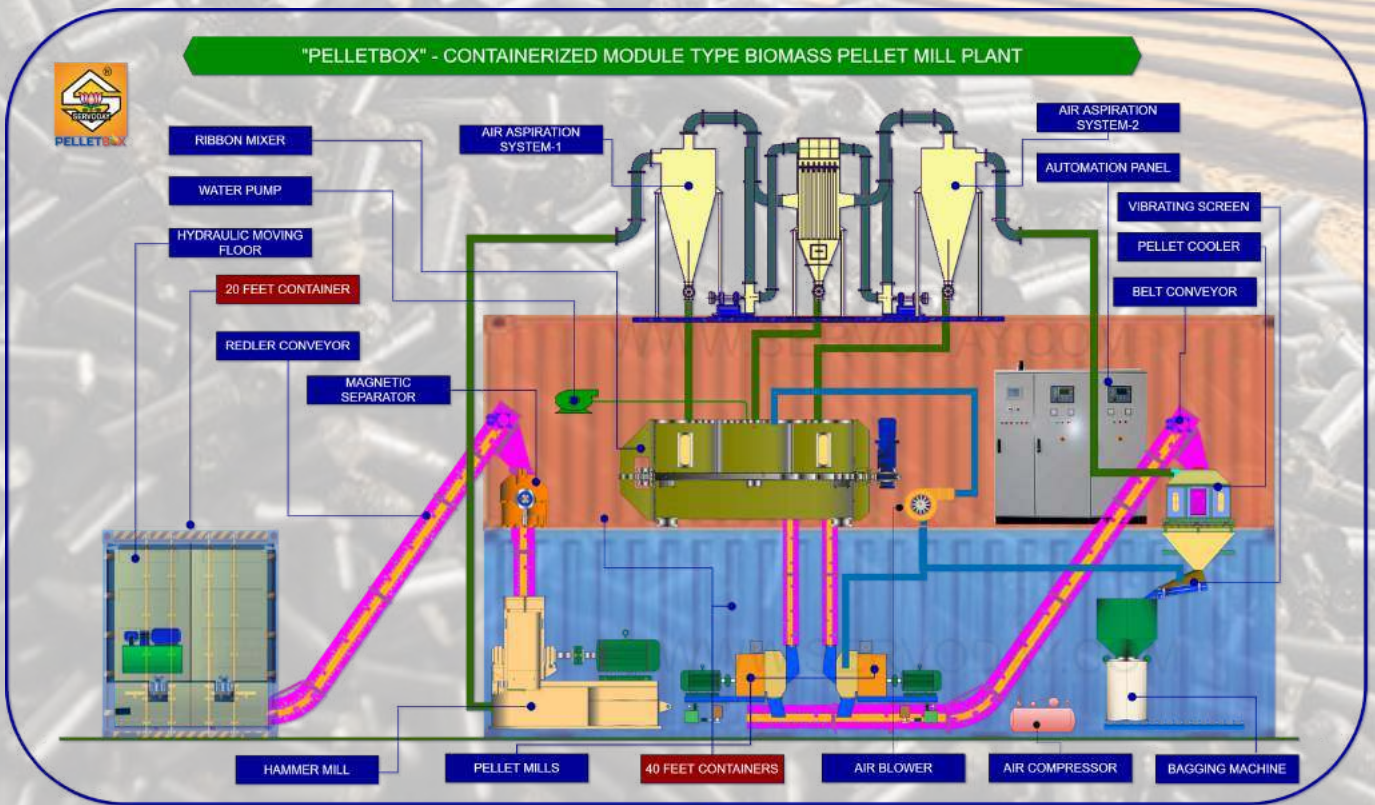
**LESS FIRE
HAZARD**



CONTAINERIZED MODULE TYPE

 **BIOMASS**

PELLETBOX PLANTS



Get in touch:

Call: 94272 10483 & 94272 10484
 EMAIL: info@servoday.com
 Web: www.woodpellet.in



SERVODAY
 PLANTS & EQUIPMENTS LTD



PELLETBOX

PLANT CAPACITY CHART*

MODEL MATERIAL	PELLETBOX-1	PELLETBOX-2	PELLETBOX-3	PELLETBOX-4	PELLETBOX-5
SOFT WOOD	>1.0 TPH	>2.0 TPH	>3.0 TPH	>4.0 TPH	>5.0TPH
HARD WOOD	>0.9 TPH	>1.8 TPH	>2.7 TPH	>3.6 TPH	>4.5 TPH
SOFT SAW DUST	>1.0 TPH	>2.0 TPH	>3.0 TPH	>4.0 TPH	>5.0 TPH
SAWMILL WASTE	>1.0 TPH	>2.0TPH	>3.0 TPH	>4.0 TPH	>4.5 TPH
BARKS WOOD	>0.9 TPH	>1.8 TPH	>2.7 TPH	>3.6 TPH	>4.5 TPH
FORESTRY WASTE	>0.8 TPH	>1.7TPH	>2.6 TPH	>3.4 TPH	>4.3 TPH
RICE STRAW	>0.9 TPH	>1.8TPH	>2.7 TPH	>3.6 TPH	>4.5 TPH
MUSTARD STALK	>0.9 TPH	>1.8 TPH	>2.7 TPH	>3.6 TPH	>4.5 TPH
CORN STALK	>0.8 TPH	>1.7 TPH	>2.6 TPH	>3.4 TPH	>4.3 TPH
CORN COBS	>1.0 TPH	>2.0 TPH	>3.0 TPH	>4.0 TPH	>5.0 TPH
RICE HUSK	>0.9 TPH	>1.8 TPH	>2.7 TPH	>3.6 TPH	>4.5 TPH
GROUNDNUT SHELL	>0.8 TPH	>1.7 TPH	>2.6 TPH	>3.4 TPH	>4.3 TPH
BAGASSE	>0.8 TPH	>1.7 TPH	>2.6 TPH	>3.4 TPH	>4.3 TPH
COFFEE HUSK	>0.8 TPH	>1.7 TPH	>2.6 TPH	>3.4 TPH	>4.3 TPH
DE-CAKE	>0.9 TPH	>1.8 TPH	>2.7 TPH	>3.6 TPH	>4.5 TPH
COIR PITH	>0.8 TPH	>1.7 TPH	>2.6 TPH	>3.4 TPH	>4.3 TPH
PRESS MUD	>0.9 TPH	>1.8 TPH	>2.7 TPH	>3.6 TPH	>4.5 TPH
PEAT	>0.8 TPH	>1.7TPH	>2.6 TPH	>3.4 TPH	>4.3 TPH

APPROX. POWER LOAD: **300 HP** **452 HP** **710 HP** **910 HP** **1180 HP**

*CAPACITY & POWER SUBJECT TO STANDARD CHEMICAL & PHYSICAL COMPOSITION OF RAW MATERAILS



Requirements:

- Moisture: Below 15%
- Raw Material Input Size: 15mm x 15mm
- Input form: Loose or Bale
- Raw Material free from metal & stone
- Raw Material Sizing Machinery
- Raw Material Drying Machinery
- Pellet Packing Machine
- Pellet Storage Silo



SERVODAY GROUP PRESENTS

MOVING FLOOR LIVE BOTTOM PUSH FLOOR FUEL BUNKER

Biomass Storage & Discharge System For
PELLET PLANT - POWER PLANT - CEMENT PLANT



OPTIMUM STORAGE & DISCHARGE SYSTEM

Servoday offers a wide range of bulk handling equipment including silo systems with controlled discharge arrangement. All of this is designed for free and difficult non free-flowing bulk solids and is therefore mainly suitable for the Pellet Plant, Power Plant & Cement industries for handling of Straw, Stalk, Sawdust, Wood, Bagasse, Press Mud, Husk, Shells, Lignin, RDF as well as for sludge cake handling in the paper & water industry and indeed for many other industries worldwide.



RECEIVE - STORE - TRANSFER

Servoday Design Technology

The Moving Floor is an discharger design by Servoday for square and rectangular silo & bunkers. It is designed to function with free & non-free flowing and difficult to handle bulk solid materials. The flat bottom floor concept gives many advantages and the Moving Floor can be used in a number of different configurations to suit the client' s particular requirement. This discharge device with automation system ensures a reliable material discharge, an exact dosage and allows the storage of large volumes.



Biomass
Storage &
Discharge
System



Biomass Storage & Discharge System

COCONUT



COBS



COFFEE HUSK



STRAW



WOOD WASTE



RDF



SEEDS



EFB



SHELL



RICE HUSK



AGRO WASTE



PELLET



Purpose

The moving floor consists of hydraulically driven push floor ladders, which move alternately over the bottom of the silo or bunker. Due to the movement of the ladders arranged in parallel, the bulk material is pushed & pulled from the silo or bunker floor into a discharge screw or into other downstream conveyors. The desired dosage from the moving floor is either by screw or by the push floor ladders themselves.

Reliable & Versatile

The Moving Floor discharge system can be used in a number of different configurations. Installed on the bottom of a square/rectangular silo or bunker, the bulk material is reliably pushed from one side of the bunker towards the discharge device. If the material is to be transferred through a discharge opening into one or more screws or a solids pump, the bulk material is additionally conveyed into the middle of the bunker. Due to the versatility of the sliding floor, it can be used for dosing tanks, underground

Discharge Capacity:

1 - 50 TPH

Storage Capacity:

10 - 1000M³

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www.woodpellet.in

HAMMER MILL

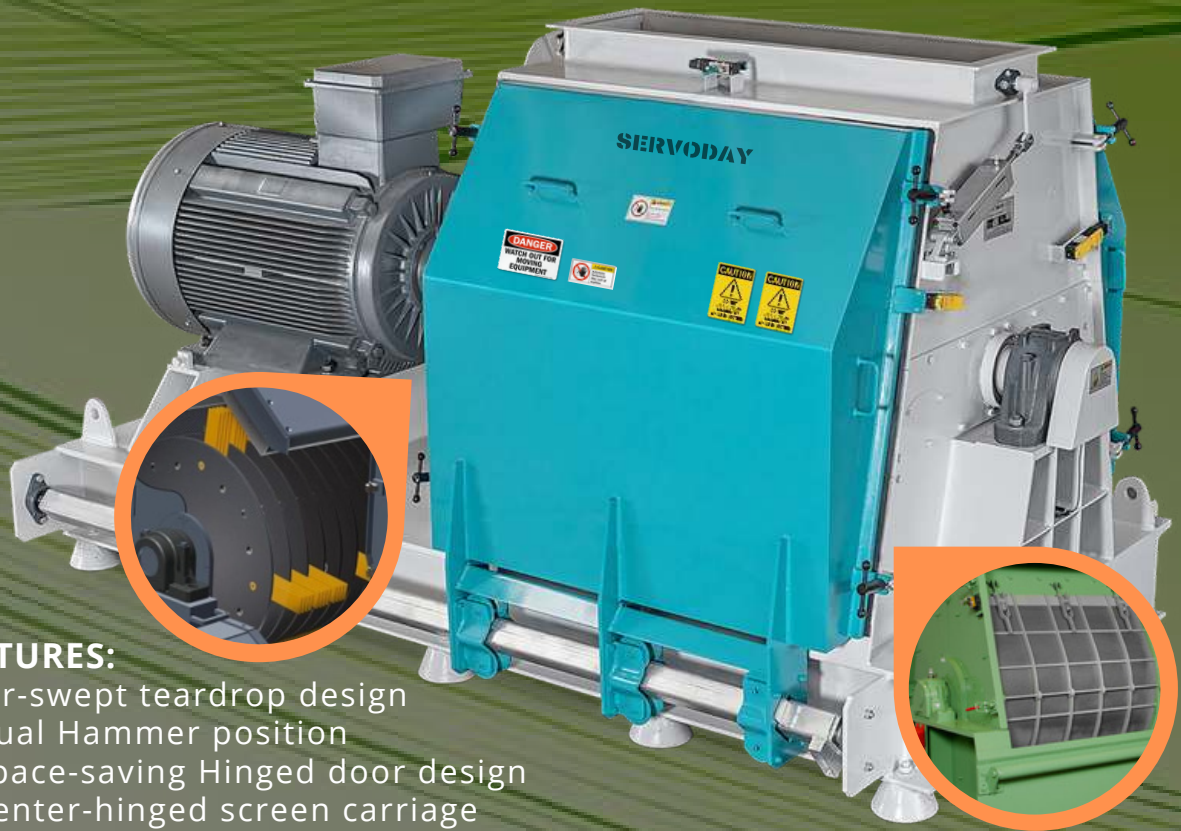


SERVODAY GROUP

HAMMER MILL BIOMASS - WOOD - FEED

Tear Drop Design Hammer Mill for the most demanding applications like Feed, Biomass and Wood Pellet Plant and Grinding industries, the heavy-duty Tear Drop Hammer mill comes in a variety of sizes and models that match all particle size-grinding needs.

Tear Drop Hammer Mill built to the highest standards, the heavy duty frame is design to minimize vibration and noise, a robust regrind chamber and pivoting arms type full-access doors, allow the doors to move out of the way during maintenance of Mill.

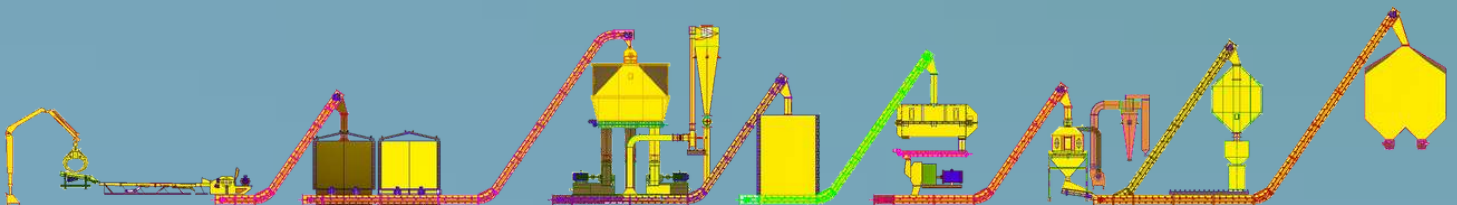


FEATURES:

- Air-swept teardrop design
- Dual Hammer position
- Space-saving Hinged door design
- Center-hinged screen carriage
- Pillow Block mounted inboard and outboard bearings
- Dynamically balanced Rotor with Bitters
- Screen with required Diameter hole.
- Heavy Duty Base frame for Electric Motorn
- Available from 60 HP to 450 HP capacity

Also available

WOOD & BIOMASS PELLET PLANT ON TURNKEY BASIS



YOUR PARTNER IN PRODUCTIVITY

SERVO

3000

pellet mill



GEAR DRIVEN POWERFUL PELLETING



SERVO
3000
pellet mill



performance

The SERVO 3000 Pellet Mill is a compact workhorse that just keeps running. A fine-tuned design that offers highly efficient pelleting. The SERVO 3000 combines the best of current pellet mill technology with proven features from our long-established family of gear-driven pellet mills, offering the highest output per kWh in its class

standard features

Compact profile, small footprint, modular design - makes the mill easy to fit into your facility. The die-area-to-kW combinations provide increased efficiency and throughput, ensuring that there are fewer blockages, and providing longer die life. Shear pin hub array - protects the shaft against foreign objects.

engineering

Robust, easy-to-maintain design Single-reduction, precision helical gearing delivers quieter operation,

The SERVO 3000 Pellet Mill utilizes a single motor and a positive direct gear drive that boasts 98% power transfer for efficiency you'll see on Day One.

key features

Clamp-on die for fast die change. Modular gearbox design for production flexibility. Replaceable quill flange. Stainless steel pellet chamber. Automatic grease system. Two-roll main shaft for maximum capacity and efficiency. Automation software to operate and control SERVO 3000 Pellet Mill.

SERVO
3000
pellet mill



BIOMASS - WOOD - FEED



SERVO
3000
pellet mill



RING DIE - GEAR DRIVEN



SERVODAY Pellets & Equipment
www.servoday.com

QUERAT
MACHINE TYPE
TYPE NUMBER
SERIAL NUMBER
YEAR
EQUIPMENT



WARNING
Read and understand
operator's manual
before using this
equipment.
Failure to follow could
result in death or serious injury.

CAUTION
This equipment
starts and stops
automatically.

CAUTION
Hot
surface.
Do not touch.

WARNING
INTER-LOCKED
DOOR.
Do not open door
during operation.

CAUTION
Hoisting
protection
required in
this area.

WARNING
This equipment is designed
for use only by trained
operators. Do not attempt
to operate this equipment
unless you have been
properly trained.
Failure to follow these
instructions could result
in death or serious injury.



who we are

Servoday Group is a global engineering company that serves all kinds of organisations, corporation and a private client. Servoday Group has been in the industry for more than 50 years. And, commonly known as one of the best engineering company herein India and abroad.

what we do

We are responsible for designing and supplying of Pellet Manufacturing Plants on TURNKEY basis.

SERVO PELLET MILL MODELS

MODEL*	DIE ID MM	DIE WIDTH MM	DIE WORKING AREA	KW	RPM	CAPACITY TPH*	REMARK
3022-63	558	63	1115cm ²	132	1500	2.0	For Wood & Biomass
7730-100	762	94	2480cm ²	200	1500	3.0	For Wood & Biomass
7930-100	762	94	2480cm ²	250	1500	3.0 to 4.0	For Wood & Biomass
7932-125	826	125	3220cm ²	315	1500	4.0 to 5.0	For Wood & Biomass

*Specifications & capacity may change on raw material selection and application.



contact us

Servoday Plants & Equipments Limited
Ahmedabad - Jamnagar (Gujarat) India
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info@servoday.com - www.servoday.com

SERVO
3000
pellet mill

WWW.WOODPELLET.IN

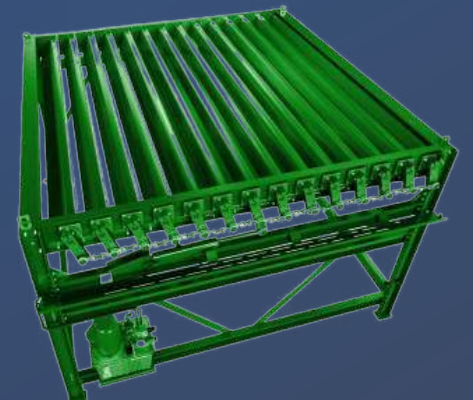
Servoday Group Presents

COUNTER FLOW COOLER

SERVODAY Counter Flow Coolers are used for cooling pellets and extrudates to near ambient temperature. The coolers are available in 8 sizes with capacities up to 30 t/h.



SERVODAY Counter Flow Cooling is the most efficient process for granular products and meal. The air flows in the opposite direction to the product which means that the product is gradually cooled on its way from pellet-mill to discharge hopper. The air is gradually warmed on its way from air inlet to cooler exhaust, thus preventing pellet damage due to a temperature shock.



PELLET

MEAL

FLAKES

GRANULES

CAKE

COLLETS

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www.servoday.com
www.woodpellet.in

COUNTER FLOW COOLER

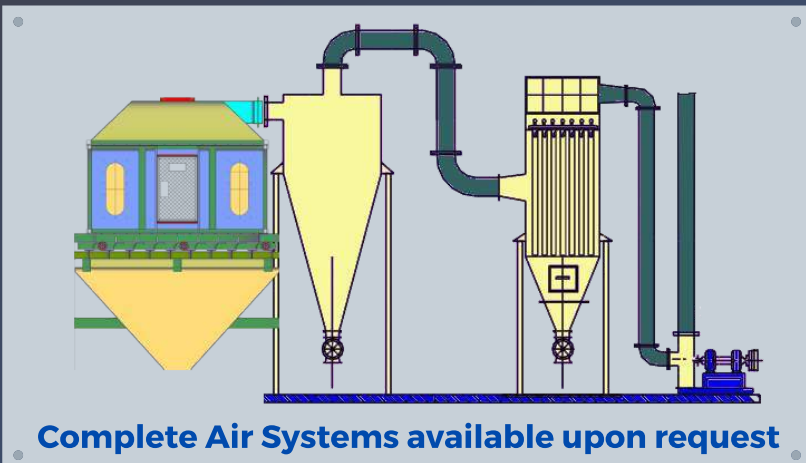


Available in
Stainless
Steel
and
Mild Steel
Construction

PELLET - MEAL - FLAKES - GRANULES - CAKE - COLLETS



SERVODAY Counter Flow technology is suitable for drying and cooling of any granular products that requires the highest standards of sanitation. Drying and cooling of breakfast cereals, snack foods, coffee beans, cocoa, chocolate, bread crumbs, couscous, fruits, vegetables, nuts, pellets, meal, flakes, granules, cake and collets can be achieved with lowest need for cleaning and fastest cleaning times. Energy savings of 20-70% are achievable when replacing belt dryers, fluid bed dryers or tumbling dryers. The gravity flow principle leads to much lower maintenance costs and almost uninterrupted up-time.



**DRYER - CHIPPER - SHREDDER - HAMMER MILL
PELLET MILL - FEEDER - CONDITIONER - SILO**

TYPE	COOLING AREA	CAPACITY*
IRM 14/14	2.0 M3	4.0 TPH
IRM 14/19	2.7 M3	6.0 TPH
IRM 19/19	3.6 M3	8.0 TPH
IRM 19/24	4.5 M3	12.0 TPH
IRM 24/24	5.7 M3	16.0 TPH
IRM 24/28	6.8 M3	20.0 TPH
IRM 28/28	8.2 M3	25.0 TPH
IRM 28/38	11.0 M3	30.0 TPH

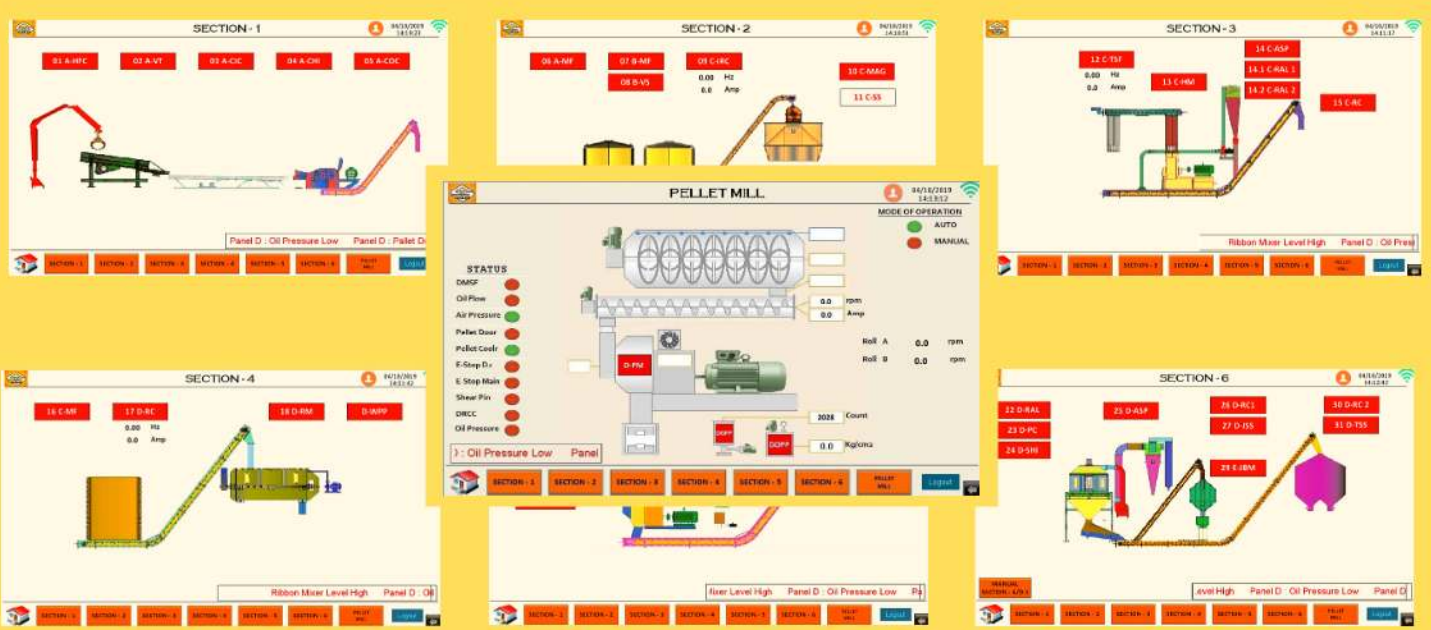
*CAPACITY BASED ON 4MM GRANULES WITH DENSITY 600 KG/M3

Servoday Group
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www.servoday.com
www.woodpellet.in



PELLET PLANT AUTOMATION SYSTEM

Pellet Plant Automation System to control the operation of the whole pellet production line, including Raw Material Preparatory Section, Chipping Section, Drying Section, Grinding Section, Mixing Section, Pelleting Section, Cooling Section, Storage Section, Bagging Section.



We are number one in this business and we was chosen by a lot of small companies needing our help. Give us a chance to help you to!

SERVODAY PLANTS & EQUIPMENTS LIMITED

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PELLET HANDLING - STORAGE - FIRING SYSTEM WITH AUTOMATION

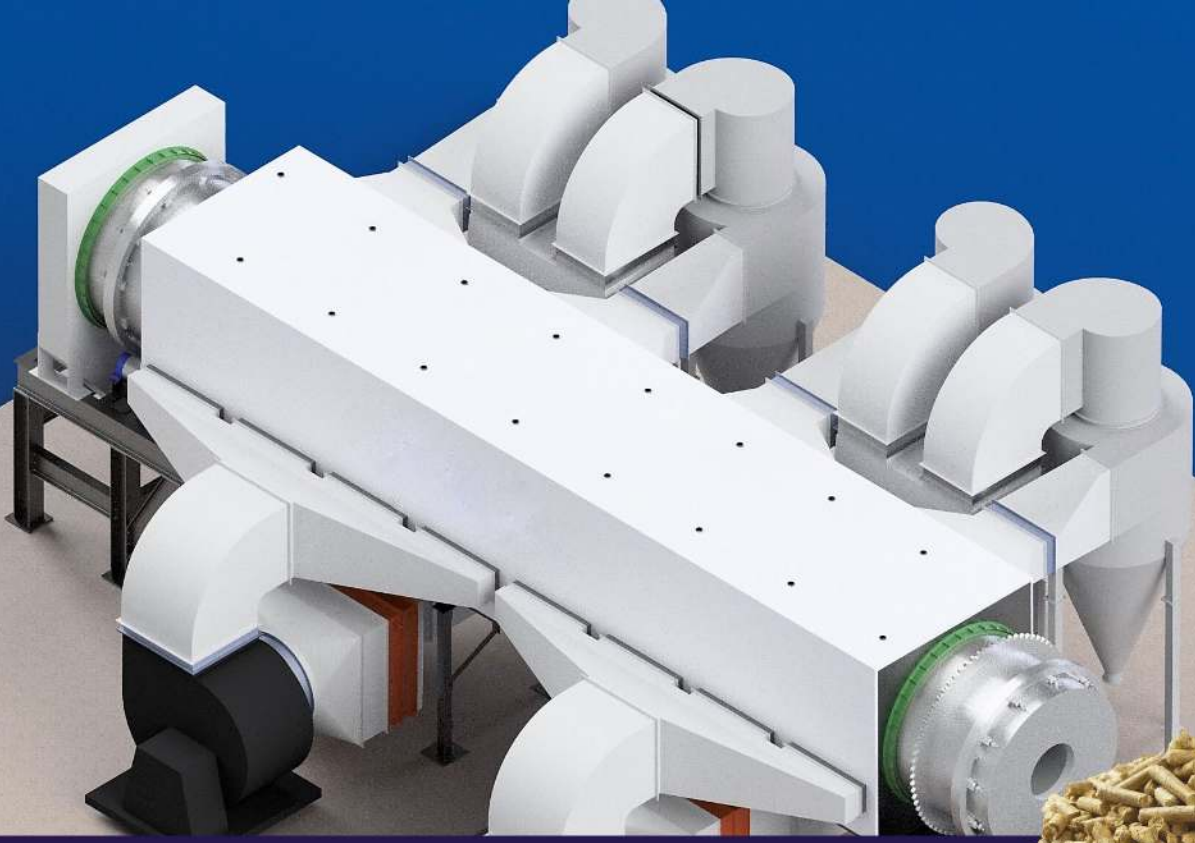
Pellet Automation System to control the operation of Boilers, including Pellet Receiving equipments, Pellet Storage Silo, Pellet handling equipments and Pellet Firing Burners for all kind of Boilers and Hot Air Generators.



We are number one in this business and we was chosen by a lot of small companies needing our help. Give us a chance to help you to!

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"INNOVATION STARTS WITH US"

WOOD BIOMASS TORREFACTION

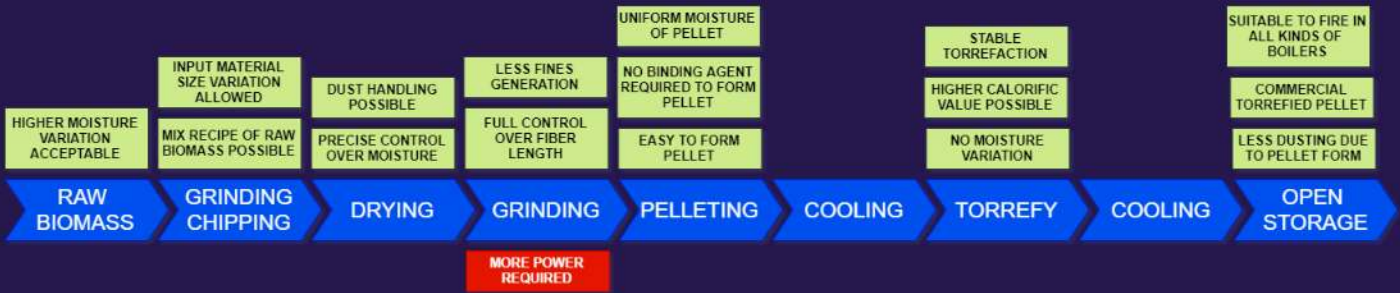
TORREFACTION PLANT

NEW concept in process drying Technology, using dry super heated steam as the heating medium to replace the traditional air/oxygen methods of drying.

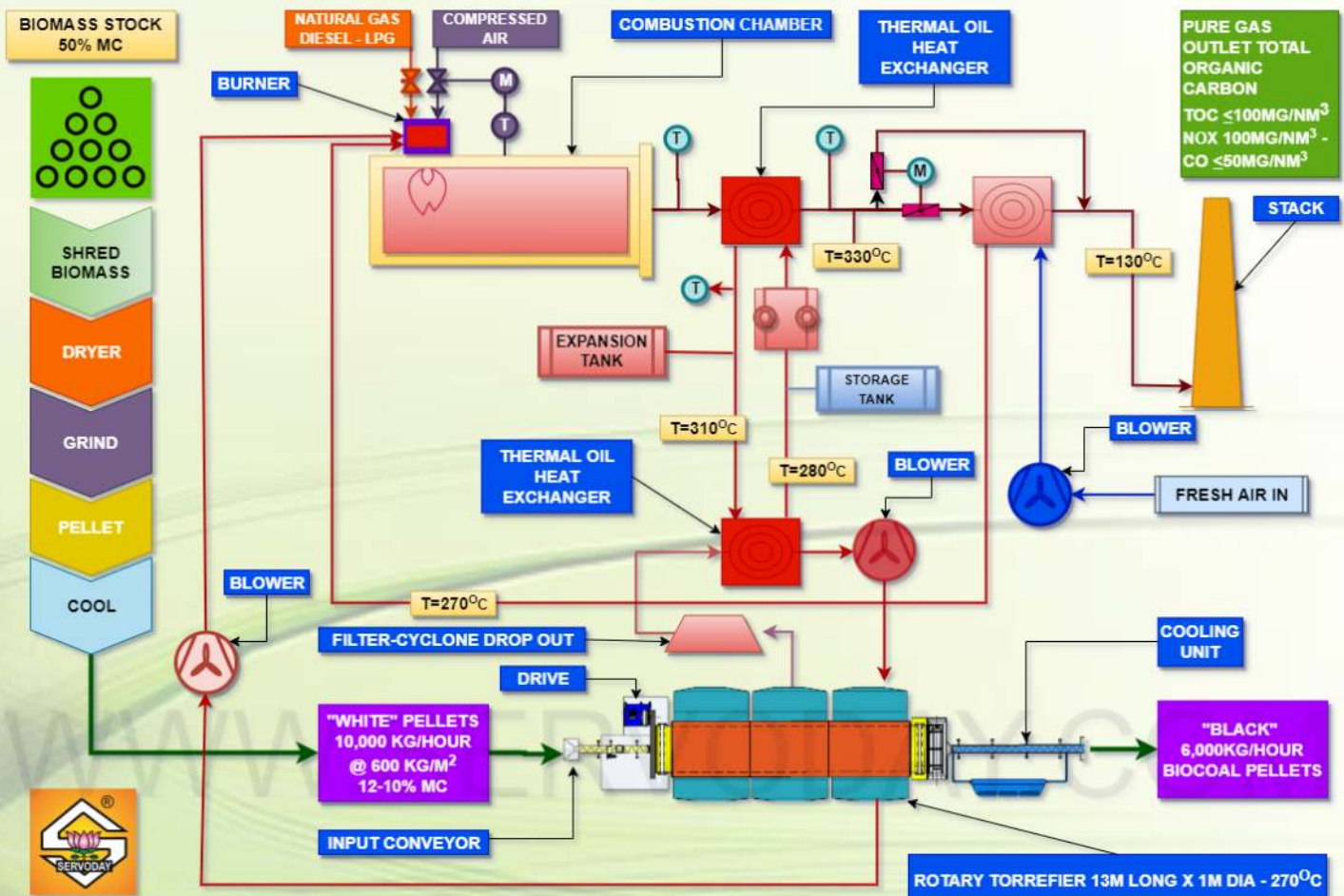
This dramatically improves the efficiency of the drying process whilst at the same time using a safe, invisible dry gas being used at atmospheric pressure.

VISIT WWW.WOODPELLET.IN

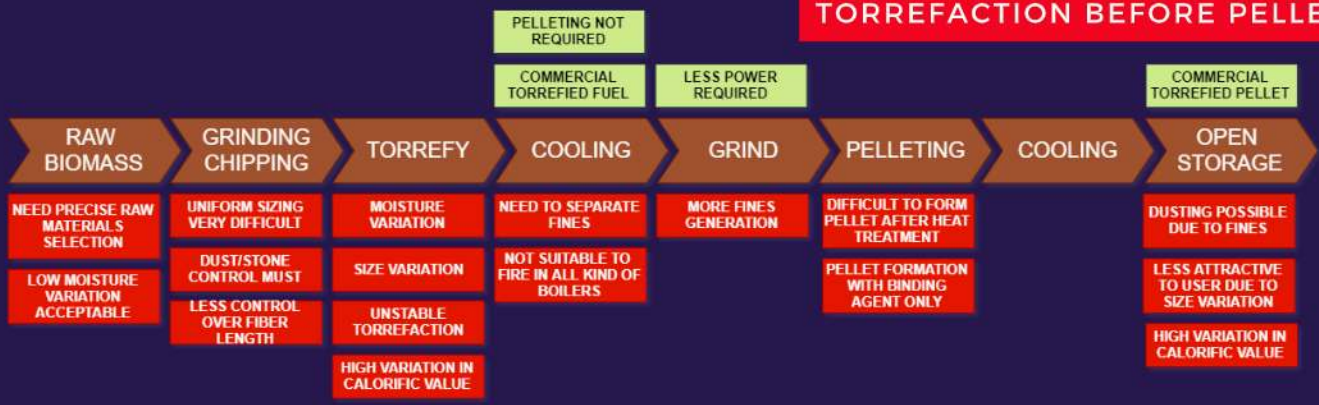
TORREFACTION AFTER PELLETING



TORREFACTION PROCESS



TORREFACTION BEFORE PELLETING



SERVODAY PLANTS & EQUIPMENTS LIMITED - CALL 9427210483 OR 9427210484 INFO@SERVODAY.COM - WWW.WOODPELLET.IN



1 fistful pellets = 2 fistfuls compost

COMPOST PELLETING PLANT



This innovative form of compost pellets allows the soil to be nourished slowly over time, in a way that plants love.

Call on 9427210483 - 9427210484

COMPOST PELLETING

SCREENING

The screening system cleans the raw material of stones, metal pieces, wood, feathers etc.

COMPOSTING

The composting process is done outdoors the product is accumulated on piles and are periodically turned by a mechanical turning machine, in order to obtain correct drying and fermentation.

REFINING

The compost raw materials is forced out through grids with holes with the desired dimension and cleaned of undesired parts in the product.

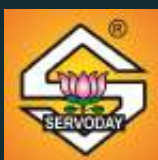
PELLETING

The material is entering in the pellet mill passing through the ribbon mixer and conditioner. Here other ingredients could be added, before the material goes into the pellet pressure chamber to be transformed into pellets.

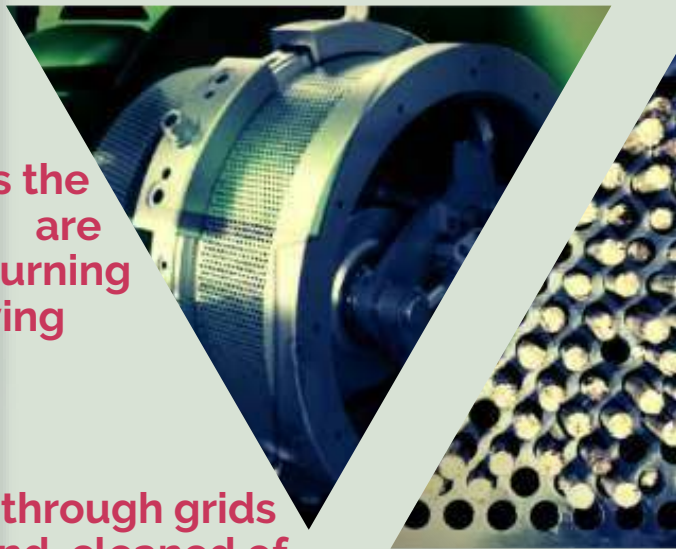
COOLING

After pelleting, the product is very hot, hence it's necessary to cool the product through pellet cooler, in order to give it the right hardness and the best consistence to store and handle it.

TURNKEY PROJECT SUPPLIER



Servoday Plants & Equipments Limited
Phone: 9427210483 - 9427210484
info@servoday.com - www.woodpellet.in



**FOLLOWING PRODUCTS CAN BE PELLETED WITH
SERVODAY PELLET PLANT**

BIOMASS MATERIALS



**WWW.WOODPELLET.IN
INFO@SERVODAY.COM**

BIOMASS MATERIALS	ASH %	KCAL/KG
Bagasse	1.8	4380
Castor Seed Shell	8.0	3862
Castor Stick	5.4	4300
Coconut Wastes	6.31	3720
Coffee Husk	5.3	4045
Coir Pith	9.1	4146
Corn Cobs	0.2	4100
Corn Dental Stick	3.0	4050
Cotton Stalk & Shell	3.0	4252
Groundnut Shell	3.8	4524
Lemon Grass	5.8	4030
Mulberry Stick	2.49	4380
Rice husk	20.65	3950
Saw Dust	1.2	4400
Sugar Cane Leaves	5.0	3996
Sun Flower Stalk	4.3	4300
Sweet Sorghum Stalk	7.4	4100
Tobacco Waste	31.5	2910
Black Wattle	0.9	4707
Paddy Straw	15.5	3436
Mustard Shell	3.7	4300
Barks Wood	4.4	4270
Wheat Straw	8	4100
Soya Bean Husk	4.1	4170
Jute Waste	3	4428
Cashew Husk	20	4100
Palm Husk	4.9	3900
Bamboo Dust	8	4160
Nappier Grass	8.55	4051
Forestry Waste	7	3000
Mustard Stalk	3.4	4200
Wood Chips	1.2	4785
Rice Straw	21.2	3200
Tea Waste	3.8	4237
Sunflower Stalk	4.3	4300

The calorific data shown above are for informational purposes only.



YOU GET
WHAT YOU
PAY FOR!



VALUE VS. COST





**WHY
CHEAPER
IS NOT
ALWAYS
BETTER!**

COMPATIBILITY



COMPETITIVENESS

CREATIVITY

COOPERATION

STATE OF THE ART TECHNOLOGY

Very modern and using latest ideas and methods

HIGH DEGREE OF AUTOMATION

Process automation using computer technology & software

LESS OPERATING MANPOWER

Only few skilled persons required to operate the plant

GET QUALITY & CAPACITY

Plant on TURNKEY basis comes with responsibility

TRAINING

A genuine commitment from your local supplier

GURANTEED SUPPLY OF PARTS

Fast and convenient PARTS supply

ONLINE 24X7 SUPPORT SYSTEM

Plant & Machinery with Remote diagnostic systems