

Jainum



NAMASTE !!

SOLID WASTE MANAGEMENT | FOOD ROASTING & DRYING | BAGLOADER & STACKER

www.jainumprojects.com

EXPERIENCE, FACILITY AND PRODUCTS

Jainum Food & Waste Projects Pvt. Ltd. is a manufacturing company engaged in manufacturing of projects and equipment for Municipal Solid Waste Management, Food Roasting & Drying and Bagloading - Stacking. JAINUM carries over four decades of rich manufacturing experience of its Directors and can boast on its high quality equipments. We have supplied many Projects & Equipment across India and exported to various countries around the globe.

Our core area of specialization is :

- Equipments Manufacturing & Supply.
- Project Engineering & Consultation.
- Operation & Maintenance Assistance.

OUR PRODUCTS & SERVICES

Solid Waste Management Projects

1. MSW Composting & RDF Projects.
2. Land Reclamation / Legacy Waste Processing.
3. Trommel, Shredder, BDS Units.
4. Organic Waste Converter (Organo)
5. Drum / In vessel Composting Units.
6. Plastic waste to Allied Products.

Food Roasting and Energy Food Plant

1. Flours / Grit Roasting & Drying.
2. Spices Roasting & Drying
3. Energy Food Plant.
4. Instant Mix Plant.
5. Roasted Food Products.

Bagloader & Stacker

1. Standard Loader & Stacker.
2. Retractable Loader & Stacker.
3. Container Stacker.
4. Table Conveyor.
5. Custom Design.



OUR CLIENTS

Solid Waste Management Projects

1. Bhopal Municipal Corporation
2. Tirupati Municipal Corporation
3. Gaya Municipal Corporation
4. BVG India Ltd.
5. NACOF Ltd
6. ARMY, NAVY, BSF, CPWD etc.

Food Roasting & Energy Food Projects

1. AMUL, SUMUL & BANAS Dairy.
2. Dmart Ltd., Swadist, Catch Spices.
3. Isthmus, Dabur, Pagariya Group.
4. Suhana (Praveen Masalewala).
5. Eastern, Brahmins, LALAHS.

Bagloader and Stacker Projects

1. ACC, Ambuja, Wonder Cements.
2. Chambal, MCF, Deepak Fertilizer.
3. Hindustan Unilever Ltd.
4. Dmart Ltd., Suguna Foods.
5. Coromandel, Khaitan Fertilizer.



PROJECT LOCATIONS

- SOLID WASTE MANAGEMENT PROJECT
- FOOD ROASTING & ENERGY FOOD PLANTS
- BAGLOADER & STACKER



CNC PROFILER



OVERHEAD CRANE



ROLL BENDING



SHEARING MACHINE



EDGE BENDING PRESS

MUNICIPAL SOLID WASTE MANAGEMENT

Jainum Food & Waste Projects Pvt. Ltd. is a company which carries experience of close to three decades in the field of Municipal Solid Waste Management and has executed many projects across India. We, at JAINUM, were involved in design, manufacturing, construction and execution of many Solid Waste Treatment Project ranging from 10 Kg Per Day to 2000 Ton Per Day.

CONCEPTION TO IMPLEMENTATION

OUR PRODUCTS & SERVICES

Equipments Supply & Commissioning

1. Composting Projects on Turn-Key .
2. RDF Projects.
3. Land Reclamation (Bio-mining) Project.
4. Organic Waste Composting.
5. Aerobic Drum Composter
6. Plastic waste to Allied Products.
7. Windrow Turner .
8. Shredders
9. Front - end Loader & Excavator .
10. Garbage Bins .
11. Bio-culum Culture .
12. Spares of various equipments .

Project Design & Construction

1. MSW Composting Project .
2. RDF Projects.
3. Organic Waste Composting .
4. Material Recover Facility (MRF).
5. Transfer cum Sorting Station.
6. Waste Plastic Recycling .

Operation & Maintenance Training

1. Techniques of Operation .
2. Maintenance details
3. Personnel Training .
4. Organic Waste Processing.



Trommel Unit
Capacity - upto 50 TPH



- Plastic Waste to Diesel/ FO plant of upto 10 TPD.
- Plastic Waste to Allied Products.

Capacity - 10 TPD to 2000 TPD



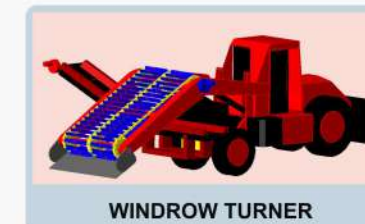
Model JFW 125 OC to JFW 3900 OC with In-built Shredder.
Capacity - 25 kg to 20000 kg per day.



Capacity - 0.1 to 3 TPH



Capacity - upto 10 TPD



- Model WT - 500
- Model WTS - 10



TROMMEL SCREEN

TROMMEL SCREEN is an uniquely designed Screening Machine which processes different material based on Size. It has unique cascading and tumbling action for high screening efficiency.

BIO-MINING PROJECT



Multi-Fraction Trommel Units for Processing Legacy Waste with capacity upto 400 cubic meter per day. Upto Four fractions can be recovered from one unit.



APPLICATION

- Trommel Screen finds its utility at various industries & places like:
- Municipal Solid Waste Segregation
 - Legacy Waste Segregation
 - Waste Sorting Station
 - Chemical Industries
 - Mineral Industries.
 - Fertilizer Industries
 - Food Industries.
 - Coal Washeries.
 - and other process industries.

Material Recovery Facility (MRF) for recovery of different recyclable material from Mixed Municipal Solid Waste. Facility comprises of Trommel, Sorting Conveyors. Disc Screen, Adhere & Bounce, Magnetic & Eddy Current Separator etc.

MATERIAL RECOVERY FACILITY



COMPOST & RDF RECOVERY PROJECT



Compost and RDF recovery from Fresh or Digested Mixed Municipal Solid Waste is often done by using Trommel Units.

Specification :

PARTICULARS	DETAILS
Model	TS Series
Type	Shaft-less Rotary
Drive	Electrical / Hydraulic
Power	2.0 - 20.0 H.P.
Power Transmission	via Friction Drive.
Diameter	0.6 - 2.6 meter
Length	3.0 - 8.0 m
Screen Sections	1 to 5
Screen Perforation	80 mesh - 200 mm
Screen Type	Wiremesh / Punch Plate
Drive Tyre	Solid Rubber Tyre
M.O.C.	Mild / Stainless Steel
Dust Cover	Mild / Stainless Steel
Speed	12 - 20 rpm



GEARED DUAL DRIVE WITH VFD



PUNCHED/WIREMESH SCREEN

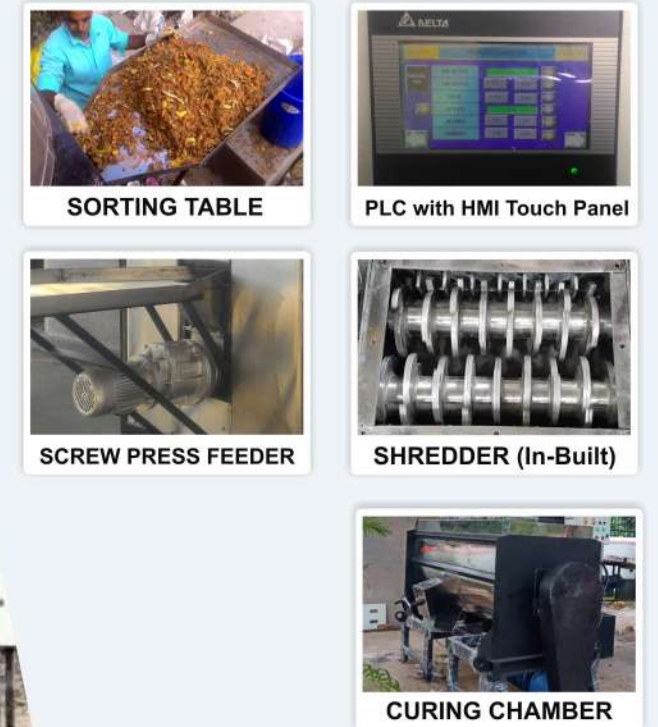
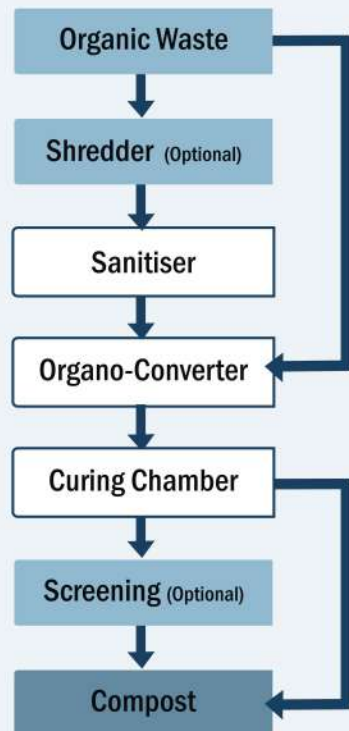


MACHINED RIDING RING

BENEFITS & FEATURES :

- High Capacity Screening Equipment ranging from 1 Ton/hr. to 50 Tons/hr.
- Rugged shaft-less design to handle powder / heavy / bulky material.
- Cascading action for better screening efficiency.
- Comes with a Synchronized VFD drive for step-less speed variation.
- Can be used for De-silting or De-watering of products.
- Has a tendency of self-cleaning and also comes with an cleaning brush (optional).
- Easily replaceable screens.
- Two Wheel or All Wheel drive for better traction.
- Stainless Steel construction for food and corrosive products.

ORGANO CONVERTER (Organic Waste Composting)



BATCH OR CONTINUOUS COMPOSTING SYSTEM

MODELS AND THEIR CAPACITY :

Organo Converter Model	Volumetric Capacity (in liters)	Min. Space Requirement L x W x H (in meter)	Processing Capacity in Kg per Day*	Electrical Load (in KW)
JFW - 70 OC	130	1.4 x 1.2 x 1.6	10 - 25	3 - 5
JFW - 125 OC	250	1.5 x 1.2 x 2.0	20 - 50	6 - 8
JFW - 350 OC	450	1.8 x 1.8 x 2.4	100 - 150	10 - 14
JFW - 650 OC	850	1.8 x 1.8 x 3.4	150 - 250	14 - 18
JFW - 1200 OC	1500	2.1 x 2.1 x 3.8	250 - 500	18 - 22
JFW - 2000 OC	2700	4.2 x 2.1 x 4.2	500 - 1000	22 - 26
JFW - 4500 OC	4500	5.0 x 2.1 x 4.2	800 - 1500	30 - 35
JFW - 6000 OC	6000	6.0 x 2.2 x 4.4	1000 - 5000	40 - 60

Note: Higher capacity models with Volumetric Capacity exceeding 20000 Liters are also available.



- Exhaust System
- Electrical Heater
- Level Sensor
- Insulated Oil Jacket
- HMI Control Panel
- Sorting Table
- SS Enclosure
- Shredder
- Bottom Feeder
- Supporting Structure

SANITISER WITH SHREDDER

Salient Features:

- Uniquely designed Organo Converter (Sanitiser) with Curing Chamber is capable of handling Organic kitchen / Mandi Waste, Garden Waste and converts it into Compost (Semi-finished).
- In built or External Shredder to reduce size of the Organic Waste .
- It reduces the volume of entire waste to nearly 20-30% of the in-feed volume.
- Unit is fully equipped with air induction system to aid in Aerobic Composting of the Organic Waste. It maintains an uniform temperature for the entire waste, in order to Sanitise and expedite the digestion process .
- Very robust design with one of the Strongest agitator.
- Compost produced (post sanitisation) is free from weed seed present in the Vegetable Waste.



AEROBIC DRUM COMPOSTER

SOLID WASTE MANAGEMENT

FOOD ROASTING AND DRYING

JAINUM ROASTER & DRYER are used world over for Roasting, Drying, Cooling and Mixing of Flour / Grits of Wheat, Gram, Maize etc. and Spices in whole or powder form. JAINUM has installed Roasting Facilities of upto 400 Tons per day in India and abroad.

ROASTER AND DRYER



FEATURES:

- Very Uniform Roasting, Drying and Mixing of Spices, Flours & Grit. No charring.
- Stand-alone Electro-Thermic Fluid Heating system along with many operations and safety related features.
- Economical in O&M with operation cost of as low as 15 Paise per Kg.
- Same unit can be used for Drying and Mixing of different material as well.
- Ultra-high efficiency mixing of products.



ENERGY FOOD & INSTANT MIX PLANT



CONTINUOUS ROASTER



CONTINUOUS COOLER

These plants are in use in various states for supply of Supplementary Nutrition

FEATURES:

- Batch or Continuous Drying, Roasting, Cooling and Mixing Facility designed to run 24x7.
- Produces high quality Energy / Fortified / Ready-to-Eat Food, as per recipe.
- HMI-PLC or Scada Controls, as per requirement.
- Options of Weigh-metric or Volumetric Mixing.
- Economical in O&M with operation cost of as low as 25 Paise per Kg.
- Ultra-high efficiency mixing of products.
- Single Point feeding.

ROTARY ROASTER AND MIXER



ROTARY ROASTER



ROTARY MIXER

FEATURES:

- Rotary Roasters are ideal for Roasting Seeds, Grams and certain spices.
- Unit comes with Gas/ Diesel Fired Burners for obtaining ideal temperature required for operations.
- Alternatively, Electro-Thermic Fluid heating system can also be used for controlled heating of the products.
- Unique lifting and cascading action to ensure proper Roasting of the product.
- Rotary Mixers can be used along with Roasters for blending or coating of additives.

- Gearbox
- Exhaust System
- Motor
- Electrical Heater
- Temperature Sensor
- Insulated Oil Jacket
- Lifting Hook

ELECTRICAL ROASTER

- Supporting Structure
- S.S. Vessel (304/316)
- Discharge Hopper
- Pneumatic Cylinder
- Control Panel

MODELS AND THEIR CAPACITY :

Model Add 'R' for Roaster 'M' for Mixer 'C' for Cooler	Volumetric Capacity (in liters)	Minimum Space Required L x W x H (in meter)	WHEAT PRODUCTS in KG / BATCH			SPICES PROCESSING in KG / BATCH			ALLIED POWDER in KG / BATCH		
			Wheat Flour 0.55 Kg/lit.	Semolina 0.7 Kg/lit.	Whole Wheat 0.77 Kg/lit.	Coriander 0.34 kg/lit.	Cumin Seed 0.41 kg/lit.	Sesame Seed 0.6 kg/lit.	Starch 0.45 kg/lit.	Sandy Clay 1.5 kg/lit.	Misc. 2.0 kg/lit.
JFW - 125	125	1.5 x 1.2 x 2.0	69	88	97	43	52	75	57	188	250
JFW - 350	350	1.8 x 1.8 x 2.4	193	245	270	119	144	210	158	525	700
JFW - 750	750	1.8 x 1.8 x 3.4	415	525	580	255	308	450	340	1125	1500
JFW - 1200	1200	2.1 x 2.1 x 3.8	660	840	924	408	492	720	540	1800	2400
JFW - 2000	2000	2.3 x 2.3 x 4.4	1100	1400	1540	680	820	1200	N.A	3000	4000
JFW - 4000	3500	2.8 x 2.8 x 4.8	1925	2450	2700	1190	1435	2100	N.A	5250	N.A.

BAGLOADER & STACKER

Container Stacker



STANDARD CONVEYOR



LOW - INTAKE CONVEYOR



TELESCOPIC TABLE CONVEYOR

An Unique Equipment to assist in Loading, Unloading, Stacking & De-stacking of Bags, Boxes etc.



Container Stacker (Dual)

Application Area:

- Cement Industries.
- Fertilizer Industries.
- Food Industries.
- Chemical Industries.
- Railway Loading.
- Warehouses & Cold Storage and other process industries.

TYPE	Model	Length	Feeding Height	Discharge Height	Belt , Bed Width
		(in mm)	(in mm)	(in mm)	(in mm)
TABLE CONVEYOR	TC-6 , 8 , 12 , 15	6000 - 15000	850	850 - 1250	500 , 600
	TC-3, 7 (Retractable)	3000 - 11000	850	850 - 1250	500 , 600
STANDARD CONVEYOR	MLS-4.5, 6 , 8	4500 - 8000	850	1200 - 4500	500 , 600
	MLS- 10 , 12	10000 - 12000	850	1200 - 6000	500 , 600
RETRACTABLE STANDARD CONVEYOR	MLS- 3.0, 5.0	3000 - 8000	850	1200 - 3800	500 , 600
	MLS- 7.0	6500 - 11250	850	1200 - 4200	500 , 600
CONTAINER STACKER	CS-3.0 , 5.0, 7.0, 9.0	7000 - 14000	300 - 3300	1200 - 5600	500 , 600
	CS-3.0 (Dual)	7000 - 10000	200 - 4400	200 - 4400	500 , 600

OTHER STANDARD AND OPTIONAL FEATURES

1. Power requirement of 2-10 HP (Three Phase).
2. Reversible Belt for facilitating both loading and unloading or stacking and de-stacking.
3. Load bearing capacity of upto 400 Kg. Loading capacity of upto 70 Tons/hr.
4. Push button Driving Unit for convenient shifting of the equipment (Optional).
5. Custom design of feeding and discharge height of the equipment.

SOLID WASTE MANAGEMENT

MSW to Compost / RDF
Land Reclamation Plant
Organic Waste Converter
Plastic Waste Recycling
Material Recovery Facility (MRF)
MSW Shredder



FOOD PROCESSING EQUIPMENT

Roaster-Mixer-Dryer
Energy Food / Instant Mix Plant
Grain Dryer
Rotary Roaster
Vertical / Horizontal Mixers
Bucket / Screw Conveyor



BAGLOADING & STACKING

Mobile Loader & Stacker
Wagon Loader
Table Conveyors
Chain Belt / Slat Conveyor
Container Stacker
Conveying Units



THANKYOU !!

Jainum
FOOD & WASTE PROJECTS
PRIVATE LIMITED

ISO 9001:2015 CERTIFIED MANUFACTURING COMPANY

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