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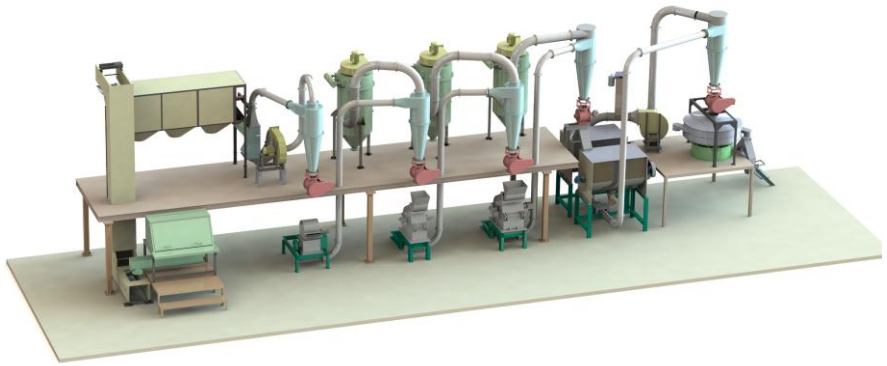

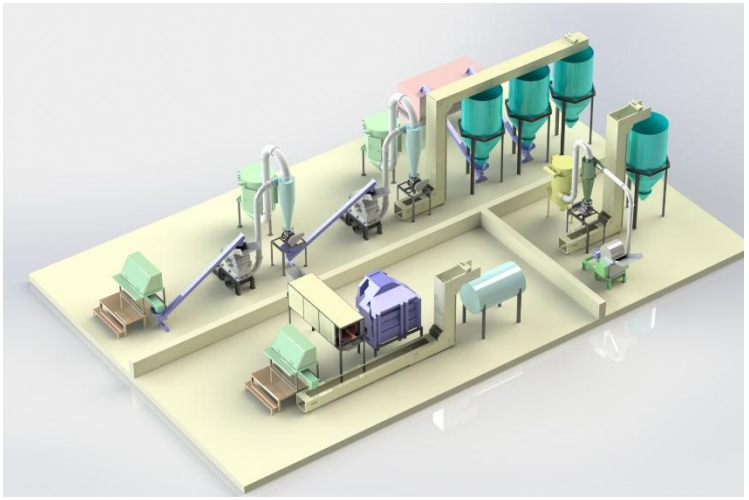

About LithoTech Engineers

LITHOTECH ENGINEERS was registered in the year 1993 as a SSI Unit and started the actual production in the year 1994.

From the very inception, the objective was to provide simple and cost effective solutions in the field of size reduction technology. We have been very innovative in our approach and are proud to claim that we have not sold just machines but provided optimum solutions. We have a very exhaustive experience of over two decades of providing machineries to process various products major being Spices, Ayurvedic Herbs Roots, Herbal products, Sugar for various applications such as confectionery, Bakery. Homeopathic medicines, Biscuit etc., Food colours, pharma, etc.

Presently our major focus is the spice industry which has not seen a major technological upgradation for the many years. Initially, we began with providing only grinding machinery however gradually we have developed and we now provide complete end to end turnkey solutions with complete automation.

We had started off very humbly with a small 700 Sq Ft. Unit in 1993 in Vasai but as of now, we have a 4000 sq Ft. Production unit in Vasai (Suburbs of Mumbai)with a strong vendor base to cater to excess demand. Further, we have a sprawling 45000 Sq Ft. in Sitarganj (Uttarakhand) which is in production since January 2011. Through this unit we have effectively executed very big projects and also we have been able to provide prompt services to our clients in north India.

In the food industry especially the spice sector there has been a special thrust on the quality standards being maintained the food processing industry. Various quality certification agencies have started providing their services as that assists the processor to easily market their product and also get a better price for the same. LITHOTECH ENGINEERS has been continuously working and developing on this front and ensured that our machineries fulfill all the quality norms set by the agencies. WE have provided customized cost effective automation and increased the overall productivity. And for us, it is an unending process.

To further develop the confidence of our clients we also have a trial demonstration facility where clients can test their material and verify the results before actually placing the order. Also, we have a few co-operative clients who allow our prospective clients to see the plant in running condition. This gives our clients more clarity about our machineries and also the processes.

We have supplied our equipments through out the world the major being, Bangladesh, USA, UK, Saudi Arabia, Qatar, Bahrain, Oman, Tanzania, Malaysia, Singapore, Mauritius, Sudan, Nigeria, etc.

Our strength lies in our strong design expertise with vast experience to provide optimum solutions for your specific requirement in processing your products.

Home Page > Products

Size Reduction Equipments

Batching System

Drying and Roasting

Blending

Sieving

Conveying and Feeding

Industries we Serve

Spices

Ayurvedic Herbs & Roots

Food Colours

Chemicals

Minerals

Pharma

Home Page > Clients

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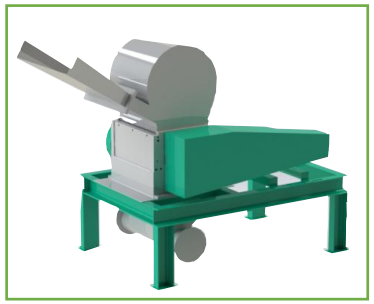
Size Reduction Equipments

Hammer Mill

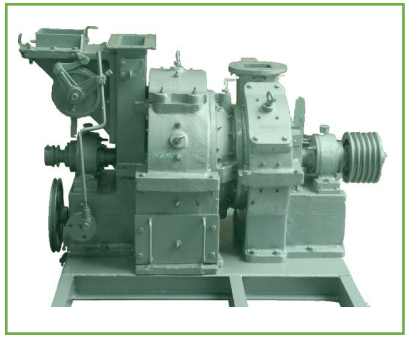


Chopper

Pin mill

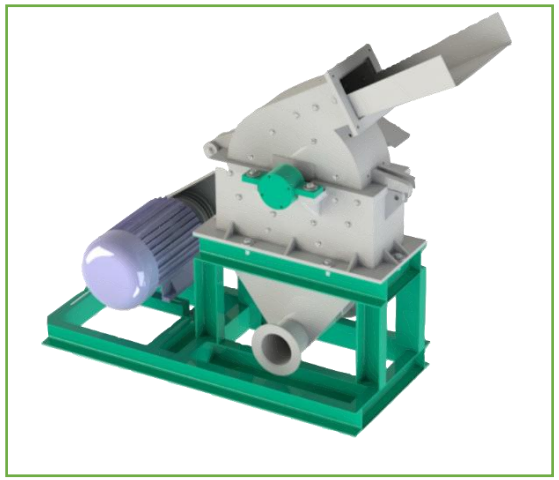
Ultra Fine Mill

Micro Pulveriser



Impex Mill

Air Swept Mill



Hammer Mill

The most versatile machine that is used to grind almost all materials like spices, foodstuffs, chemicals, ayurvedic herbals, minerals and other miscellaneous materials.

The grinding takes place between the high speed swinging hammers and top/side liners. Once the particle size reduces to that of the perforated screen at the bottom, it will be discharged through the hopper.

The fineness of the material can be controlled by changing the speed of the rotor (hammer), content of serrations on liners, number of hammers and diameter of perforation on the screen.

Models	FC-1206	FC-1508	FC-1512	FC-2215	FC-2221	FC-3621
Power (H.P.)	10	20	30	40	60	75
Capacity (Kgs/Hr.)	50-60	100-125	200-250	300-350	400-500	600-1000
Fineness Achievable	Upto 100 Mesh BSS					

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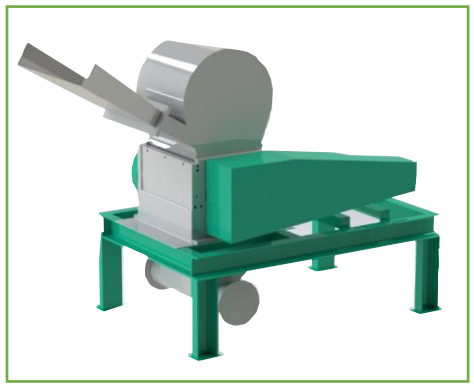
Chopper



Chopper has been specially designed for granulating & cutting various materials like foodstuffs, agro, ayurvedic herbs, etc. into small pieces of required size with minimum of powder content. There is no heat generation while grinding thereby retaining important properties like aroma taste flavour and colour.

Some typical applications are making crushed chillies for pizza toppings, chopped / minced / granulated onions, tea-cut herbal products, granulating of food colours, gum, asafoetida, crushing of various ayurvedic herbs for Extraction purpose, etc.

Models	FCH-8	FCH-12	FCH-16	FCH-24	FCH-32
Power (H.P.)	3	5	7.5	20	30
Capacity (Kgs/Hr.)	75	150	300	800	1200
Fineness Achievable	1mm to 5mm with minimum powder				

This table shouldn’t be uploaded as image in website

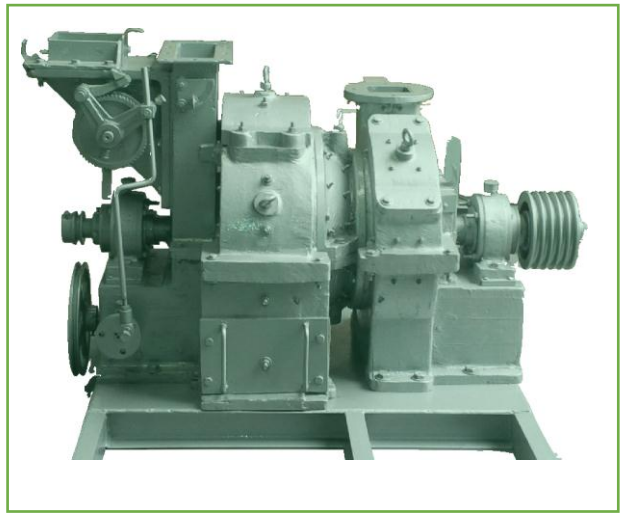
Pin mill

This machine is used for very soft materials like sugar, salts, chemicals, dyestuffs, etc for medium fine to fine grinding. This material is centrally fed into the machine chamber. The grinding takes place between a high speed rotor consisting of a large number of pins and a stationary stator. The discharge takes place through the perforated screen throughout the periphery.

Models	FPP-300	FPP-450
Power (H.P.)	10	25
Capacity (Kgs/Hr.	150-200	400-450
Feed size (mm)	15	15
Fineness Achievable	30 to 120 Mesh BSS	

This is a screenless pulveriser used for grinding soft to medium hard materials into super fine powder. The machine have built-in water jacket to keep down the temperature in the machine chamber.
This machine is generally used for superfine grinding of food dyes, industrial dye intermediates, pharmaceuticals drugs, chemicals, etc. The feed is through the feeder screw that feeds material centrally into the machine chamber. The grinding takes place due to attrition between a high speed rotating rotor having six wear resistant tips and side liners on both side of the tips and also a turbo effect. The annular gap plate controls the flow of materials through the mill. In other words it regulates the fineness of the material. The powder is discharged through the bottom hopper.

Models	FUM-300	FUM-400
Power (H.P.)	10 + 0.5	20 + 0.5
Capacity (Kgs./Hr.)	50-75	125-150
Max. Feed size	Upto 6 mm	
Fineness Achievable	150 to 300 Mesh BSS	



Impex Mill is a screenless pulverizer suitable for grinding hard and brittle materials like turmeric, minerals, etc. to a fineness of 100 to 300 Mesh BSS. It is done by continuous impact of rotating hammers against grinding liners. The raw material is fed into the rotary feeder from inlet hopper and spills into the grinding chamber. Strong hammering action breaks lumps into small particles. At the same time the blower sucks the air towards the whizzer classifier. Whizzer classifier doesn't allow oversize particles to pass and returns it into the grinding chamber, where after regrinding the desired fineness is achieved.

Models	FIM-15	FIM-22	FIM-25	FIM-32
Power (H.P.)	10	20	30	60
Capacity (Kgs/Hr.)	50	100	200	400
Fineness Achievable	Upto 100 - 250 Mesh BSS			

It is utilized for soft materials like chemicals, dyestuffs, foodstuff, pharmaceutical, bulk drugs, etc. for fine grinding. Since the machine is used vastly for chemicals &bulk drugsand other heat sensitive materials, it has a built in water jacket to control the temperature in the grinding chamber.

The grinding takes place through attrition between the high speed swinging hammers and the serrated liners. Due to the very high speed and a small chamber, a higher fineness is achieved as compared to hammer mill.

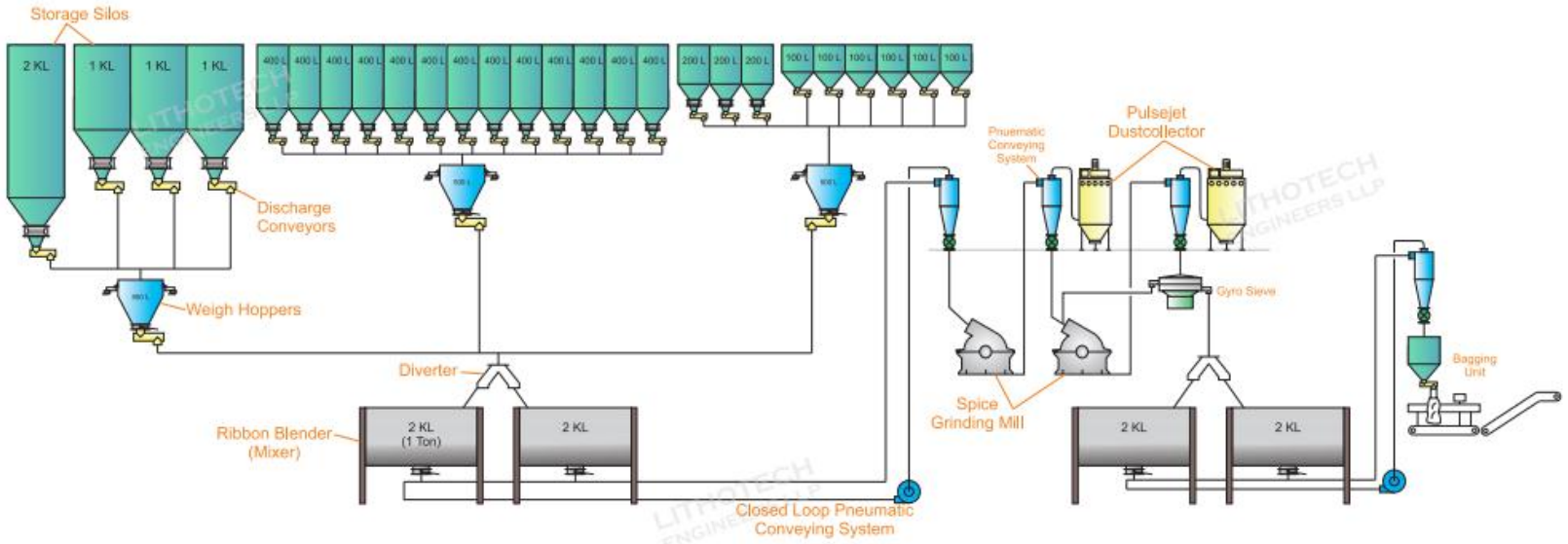
Models	FMP-1	FMP-2
Power (H.P.)	7.5 + 0.5	15 + 1
Capacity (Kgs/Hr.)	100	200
Fineness Achievable	100 to 200 Mesh BSS	

Air Swept Mill is a screenless pulverizer suitable for grinding brittle and fibrous materials like turmeric. to a fineness of 100 to 300 Mesh BSS. It is done by continuous impact of rotating hammers against grinding liners. The raw material is fed into the inlet hopper and spills into the grinding chamber. Strong hammering action breaks lumps into small particles. At the same time the blower sucks the air towards the whizzer classifier. Whizzer classifier doesn't allow oversize particles to pass and returns it into the grinding chamber, where after regrinding the desired fineness is achieved.

Models	ASM-05	ASM-10	ASM-40
Power (H.P.)	10	20	30
Capacity (Kgs/Hr.)	20	40	175
Fineness Achievable	Upto 100 - 250 Mesh BSS		

Later an image would be provided for this blue block

Batching System



Batching system is used to make a mixture of multiple ingredients according to pre defined proportions.

A Sample Process flow of the system

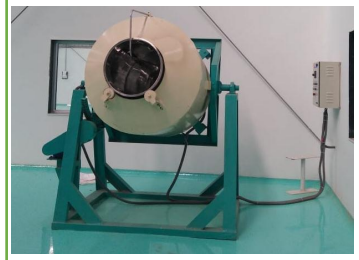
1. **Silo of 1 Ton (1 unit)** : This Silo would be mounted on the load cell and would indicate the weight of material filled in it. The A complete batch including different ingredients would me made here manually by checking the weight of each item while filling.
2. **Vibratory Feeder (1 unit):** This Feeder would be placed each at the bottom of the Silo to feed the material in the Z Type Elevator.
3. **Z-Type Elevator:** This would carry the material from the discharge of Vibratory feeder and will convey to the Mixer via the Diverter.
4. **Y – Diverter:** This would be mounted at the outlet of Z Elevator. It would be pneumatically operated by manual solenoid valve and would alternately feed the 2 Mixers
5. **Mixer 750 Kg (Twin):** This would thoroughly mix the Ingredients received from the weigh hopper. It have 10HP main motor of Mixer. The discharge valve below it is of Flap type operated by pneumatic cylinders, which while in closed condition doesn't allows any material to get accumulated over it.
6. **Collection Hopper (1 Ton):** This would be mounted below the 2 mixers and would take the discharge from both of the mixers
7. **Screw Conveyor (1 unit):** This would convey the material from outlet of Collection Hopper and would feed at the inlet of Bagging Station.
8. **Bagging Station (1 Unit):** The bags of 50 Kg each would be filled here it consists of two outlets for each where the material would come alternately. While one bag is getting filled the 1st outlet, the 2nd would be stopped and will be replaced with a new bag manually. The Weight scale is placed each below the the two outlets which would automatically weigh 50 Kg and then switch the discharge to the other outlet.

Products > Drying And Roasting

Later an image would be provided for this blue block

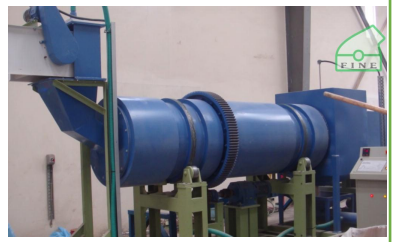
Drying and Roasting

Tray Drier



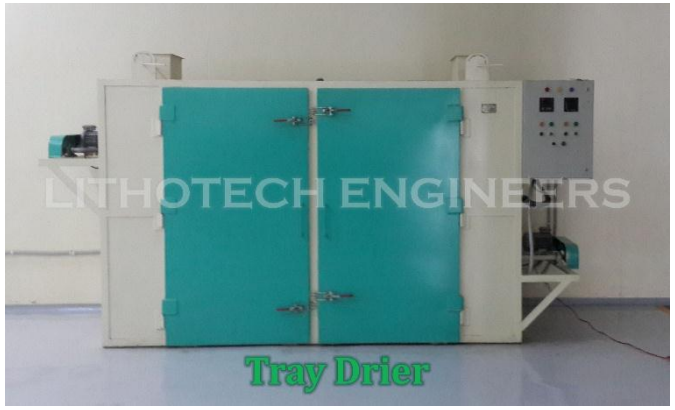
Rotary Roaster

Blender cum Roaster



Rotary Cascade Drier

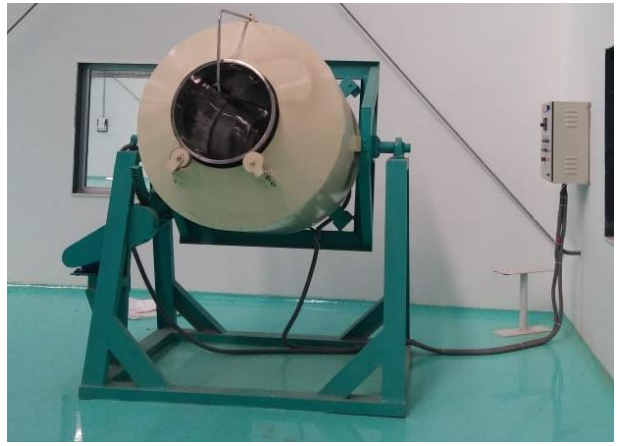
Products > Drying And Roasting > Tray Drier



- Tray drier is an Insulated Chamber within which hot air is continuously circulated. Forced convection heating takes place to remove moisture from the solids placed in trays.
- Trolleys containing trays are dragged inside the drier.
- Electrical heating elements are used to generate heat inside the drier.
- Heaters automatically switches off when the required temperature is achieved.

Model	FTD-48	FTD-96	FTD-192
No. of Trays/Trolley	48 / 1	96 / 2	192 / 4
Work space (WxDxH)	40" X 36" X 72"	77" X 36" X 72"	77" X 72" X 72"
Heating Load	9 KW	18 KW	42 KW
No. of Blowers (Axial)	2 Nos.	2 Nos.	4 Nos.
Doors	Single	Double	Double
Motor for blower	1 HP, 1440 rpm, Foot mounted.		
Electric Supply	415 V AC, 3 Phase, 50 Hz.		
Tray Dimension	32" X 16" X 1.25"		
Control Panel	Automated digital control panel.		
Heater	Tubular GI Finned		
Maximum Temperature	100 °C		
Insulation	3" thick Rock wool		
MOC - Body	S.S. / M.S. *(As required)*		
MOC - Trolley	S.S. / M.S. *(As required)*		
MOC - Trays	S.S. / M.S. / Aluminium *(As required)*		

Products > Drying And Roasting > Rotary Roaster



Features

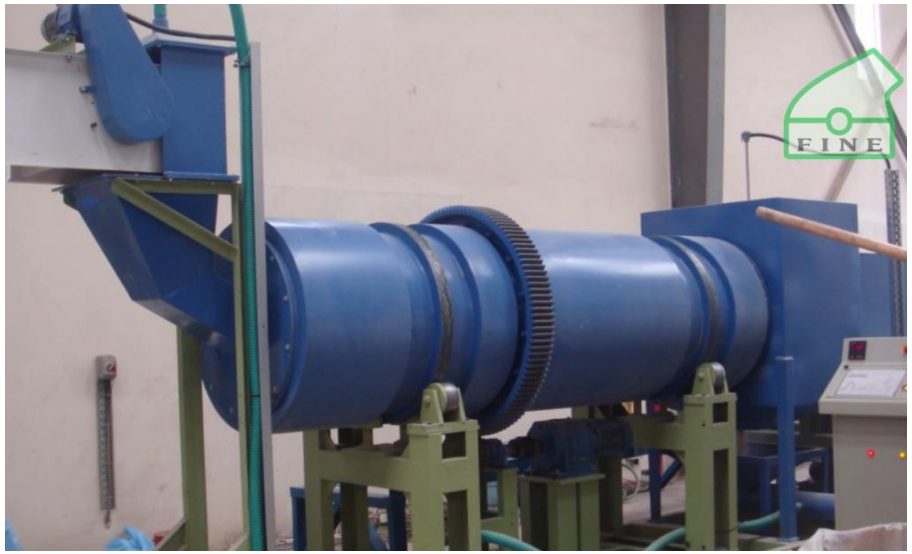
- The Uniformity of product is achieved by 3 dimensional agitation by the agitating blades
- Enables even distribution and roasting of the material, achieving uniformity in the quality of the product, at all the times.
- Downward rotational system that discharge the material at once.
- Products in the drum, even during the short period of their presence in the heater, rapidly undergo roaster due to heat inertia.
- This device has a downward rotational discharge system that minimizes the time spent in the drum and thereby preventing transformation of the product due to the remnant heat in the roaster, avoiding the product from being burnt.
- Comes along with its control panel

Model	**FRR-125**	**FRR-250**	**FRR-500**
Capacity (for coriander)	Up to 10 - 15 Kg.	Up to 25 - 30 Kg.	Up to 50 - 55 Kg.
Electrical Heater	9 KW	15 KW	21 KW
Drive Unit	2 H.P. Geared Motor	3 H.P. Geared Motor	5 H.P. Geared Motor
Supply	415 V AC, 3phase, 50 Hz		
MOC	S.S. 304 contact parts		
Drum Tilting	Automatic with drive unit (optional)		

Products > Drying And Roasting > Blender Cum Roaster

The Ribbon Blender cum Roaster would roast the Material along with the Blending Process. It is a batch type roaster. The mode of heating is by the electrical heaters immersed in the thermic fluid which is jacketed around the U-Shell of the Blender cum Roaster. It is provided along with control panel within which are its safety features.

Products > Drying And Roasting > Rotary Cascade Drier



ROTARY CASCADE DRYER

General:

The complete drying plant compromises Rotary Cascade Dryer, Air Heater, Dryer Inlet Hood, Exhaust Hood, Exhaust Air Fan & Ducting and all necessary Controls.

Duty:

To Dry about 750 Kg/hr. of Chilly Flakes from approximately 20% initial moisture to 8-10 % final moisture. moisture.

Dryer Drum:

3 Ft Diameter X 28 Ft. long dryer drum fabricated in Stainless Steel plate SS-304 , with internal flights and lifters fabricated and bolted to Stainless steel angle sections welded to the shell plates to ensure adequate contact between the drying air and the material being processed.

The drum is fitted with two cast or forged steel tyres, mounted on carbon steel spacer blocks fitted to a reinforcing band. The tyres run on four cast or forged steel support rollers shrunk fit on steel shafts with shaft mounted spherical roller bearing plummer blocks. A segmental cast steel chain ring is fitted around the periphery of the dryer drum.

Support Frames:

The complete dryer drum assembly is supported on two fabricated carbon steel roller support frames, the feed end support frame carrying the locating roller assemblies. Both roller support frames are fitter with safety guards.

Drum Drive:

The dryer drum is driven by a T.E.F.C. electric motor through V-belt drive, gearbox, pinion and chain to the drum drive chain wheel. Motor, gearbox and V-belt, etc. are mounted on a fabricated carbon steel baseplate. All drives are completely enclosed in suitable safety guards.

Air Heater:

The drying air is provided by means of Electrical Operated, firing into a refractory lined carbon steel combustion chamber connected to the dryer inlet end hood. It can also be operated with Electrical Heater of 30 KiloWatts rating.

Inlet End Hood:

The inlet end of the drum is totally enclosed with a Stainless steel fabricated enclosure, complete with labyrinth seal and stainless steel material inlet chute. The inlet hood is supported by a suitable rolled steel section support structure.

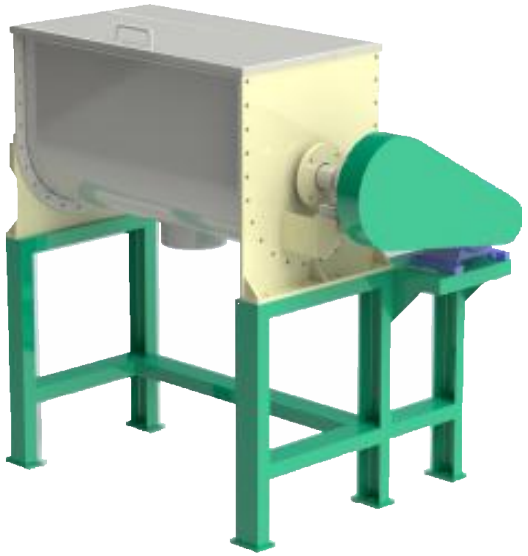
Outer End Hood:

The outer end of the drum is totally enclosed with a carbon steel fabricated hood complete with inspection access door, exhaust air outlet chute. A labyrinth type flexible seal is fitted to the rear hood plates around the drum opening. The outlet end is supported by a suitable rolled steel section support structure.

Exhaust Air Fan:

The exhaust air is drawn from the dryer by a centrifugal fan, complete with electric motor, V-belt drive and drive guard.

Exhaust Air Ducting:



The Ribbon Blender uniformly blends different spices / materials. The dimensions and configuration of the ribbons are carefully balanced to provide a movement of material within the blender that avoids dead spots and gives rapid product discharge.

The outer ribbon moves the material from ends to the centre while the inner ribbon moves it from centre to the ends this cross movements allows homogeneous and a perfect blend.

It is manufactured in Stainless Steel Contact parts.
Note: Models above FRB-250 are ‘no load start’

Models	**FRB-125**	**FRB-250**	**FRB-500**	**FRB-750**	**FRB-1000**	**FRB-2500**	**FRB-4000**
Volume (Litres)	125 L	250 L	500 L	750 L	1000 L	2500 L	4000 L
Capacity (Chilly / Coriander powder)	50	100	200	300	500	1000	2000

Products > Sieving

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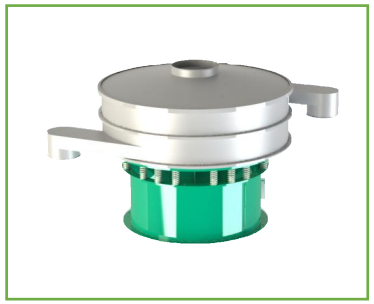
Sieving

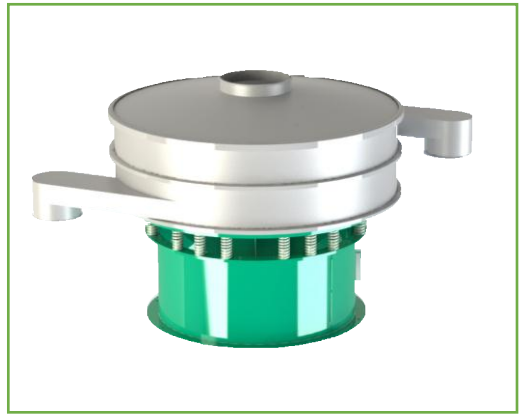


Gyro Sieve

Rotary Sieve

Centrifugal Sieve

Gyro Sieve



Gyro Vibratory Sieve Separator are self-constrained, compact, production machines which make precise mechanical separations according to particle size through efficient use of multiplane inertial vibrations techniques. They are designed and built to solve the most difficult classifying, separating and dewatering problems.

Material to be screened is fed to the top screen. Oversize particles are moved by the multiplane motion to the screen periphery where it gets discharged. Undersize particle or liquid passes rapidly through the screen. Gyro Sieve Separators are equipped to handle upto three screens

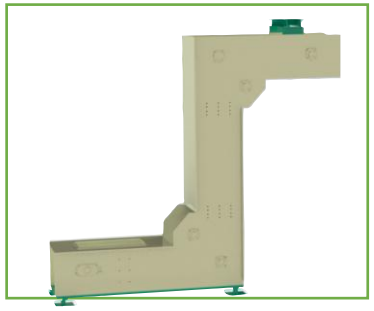
The 3 dimensional inertial vibration of Gyro Vibratory Sieve Separator is based on a principle in which motor rotation imparts vibration to the entire screen assembly in both vertical and horizontal planes.

Models	FGS-600	FGS-750	FGS-900	FGS-1200	FGS-1500	FGS-1800	FGS-2400
Power (H.P.)	0.5	0.75	1	2	3	5	7.5
Diameter of Deck (mm)	600	750	900	1200	1500	1800	2400
Capacity	Will depend on screen size and feed material properties.						

Later an image would be provided for this blue block

Conveying and Feeding

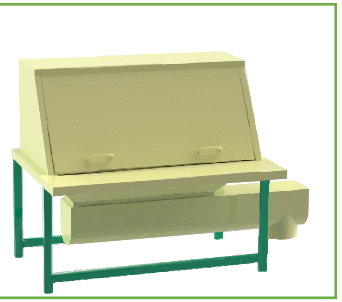
Pneumatic Conveying



Z Type Elevator

Screw Conveyor

Belt Conveyor



Dumpbooth

Tote Bins

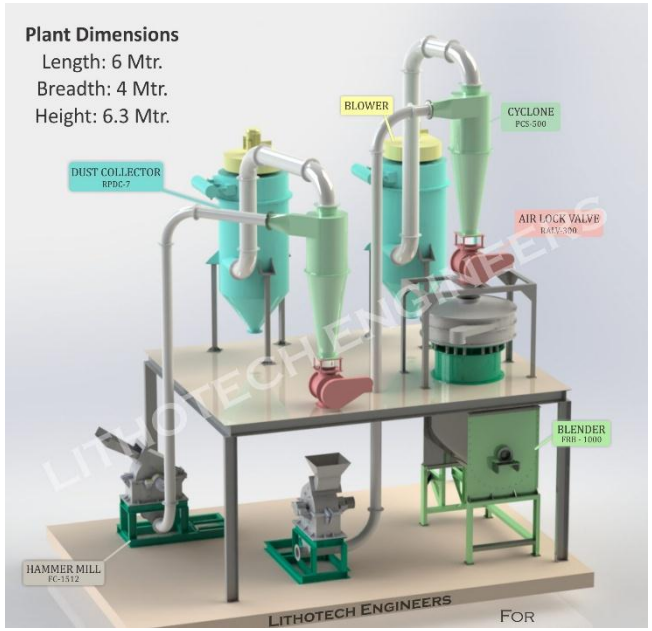
Vibratory Feeder

Gallery > Images

3 Stage Spice Plant

3 Stage Spice Plant with Chilly Cleaning

Reverse Pulsejet Dust Colllectors



Layout of 2 Stage Grinding system

Single Stage Plant

Impex Mill

Videos

All 4 Videos from the below channel

https://www.youtube.com/channel/UC7imnTJVMuja_MNkhUVpmsA

Appreciation Letter


EVEREST

S. NARENDRAKUMAR & Co.

Date :- 14th March, 2017

To

Lithotech Engineers, (Vasai)

Kind Attn: Mirza Afzal Baig

SUB:- Appreciation for successful commissioning of Spice Plant

We feel pleased to issue this letter of appreciation and inform that the Spice Grinding & Blending System with new technology supplied you has been commissioned successfully and it is complying with our expectations.

We are processing the following Spice Blends in your machine.
Panipuri masala, Jaljeera, Chat masala, shahi Biryani masala, Chicken masala, Meat masala, Shahi Garam masala, Sambar masala Etc.
Machine is running with the output capacity of two tons per hour.

The Plant comprises of :-

1) Dump booth feeding system
2) Chilly Cleaner with Zig- Zag classifier
3) Two Stage Spice Grinding System
4) Twin Blending system
5) Closed Loop Pneumatic conveying System.

We appreciate that your offered closed Loop Chilly De-stoning and Pneumatic Conveying System has improved our performance and reduced our running cost of maintaining of the jet filters.

We hope to do more business in future and wish you all the success in your future endeavors.

Best Regards

For S. Narendrakumar & Co. (Everest Masala)

Rajiv Shah


GADRE MARINE EXPORT PRIVATE LIMITED

GADRÉ

TO WHOMSOEVER IT MAY CONCERN

Date: 07/01/2018

We Gadre Marine Export pvt.ltd.., confirms that M/S Lithotech Engineers have carried out the project of setting up the sugar grinding plant at our factory location in Ratnagiri.

Lithotech Engineers have completed the work of commissioning the plant as per the contract.

We must appreciate your professional approach by which you have completed the project, we hope to have long term association with your esteemed organization.

Thanking you,

Yours truly,

Sameer Sathe

Purchase Manager

For Gadre Marine Export Pvt.Ltd.


ONE SPOON MASALA LLP

Reg. Office : No-513, 10th main, Jeevan Bhima Nagar, Bangalore- 75.

Mobile: 9008527533/ 9035043643

Date: 07 Jan 2018

TO WHOM IT MAY CONCERN

We, One Spoon Masala LLP, confirm that M/S Lithotech Engineers have carried out the project of setting up the spice processing plant at our factory location at Bangalore.

Lithotech Engineers have completed the work of commissioning the plant as per the contract.

We must appreciate your professionalism by which you have completed the project.

We hope to have a long term association with you.

For ONE SPOON MASALA LLP

Designated Partner

For ONE SPOON MASALA LLP

Designated Partner

Factory Address : No: 19 &22, (Near RTO office) Medhalli, Bangalore-45


S. A NASHIPUDI

HONESTY IS THE BEST IMAGE

Dealers In Dry Chillies

Date : 2nd January 2018

To,

M/S LITHOTECH ENGINEERS LLP

Vasai, Palghar, India

Sub:- Satisfaction Letter For Chilly Chopping System.

We are happy to know that M/S Lithotech Engineers has successfully Erected and Commissioned the Chopping Plant Model FCH-16 in MILD STEEL.

We would like to put on record our sincere appreciation for the Lithotech Engineer's Team for their Dedicated Efforts & Support.

Coming to the machine, we are Satisfied with the Performance & Production Capacity of the Machine. If we encounter any Problem in Future we will contact them and we sure that they will provide full of their Support.

Thanking You,

S.A. NASHIPUDI

For S. A. NASHIPUDI

Proprietor

Mesh Chart

Sieve Mesh Chart			
APERTURE SIZE			
B.S.S(410/1969)	**A.S.T.M. (11-70)**	**I.S. (469/1972)**	**MICRONS**
4	5	4.00mm	4000
5	6	3.35mm	3353
6	7	2.80mm	2812
7	8	2.36mm	2411
8	10	2.00mm	2057
10	12	1.70mm	4000
12	14	1.40mm	1405
14	16	1.18mm	1204
16	18	1.00mm	1204
18	20	0.850mm	850
22	25	0.710mm	710
25	30	0.600mm	600
30	35	0.500mm	500
36	40	0.425mm	420
44	45	0.355mm	355
52	50	0..300mm	300
60	60	0.250mm	250
72	70	0.212mm	210
85	80	0.180mm	180
100	100	0.150mm	150
120	120	0.125mm	120
150	140	0.106mm	105
170	170	0.090mm	90
200	200	0.075mm	75
240	230	0.063mm	63
300	270	0.053mm	53
350	325	0.045mm	45
400	400	0.037mm	37
500	500	0.025mm	25

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- ○ Rotary Roaster
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- ○ Batching System

Name

Company

Phone

Email

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Contact us

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INDIA

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Your Message

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