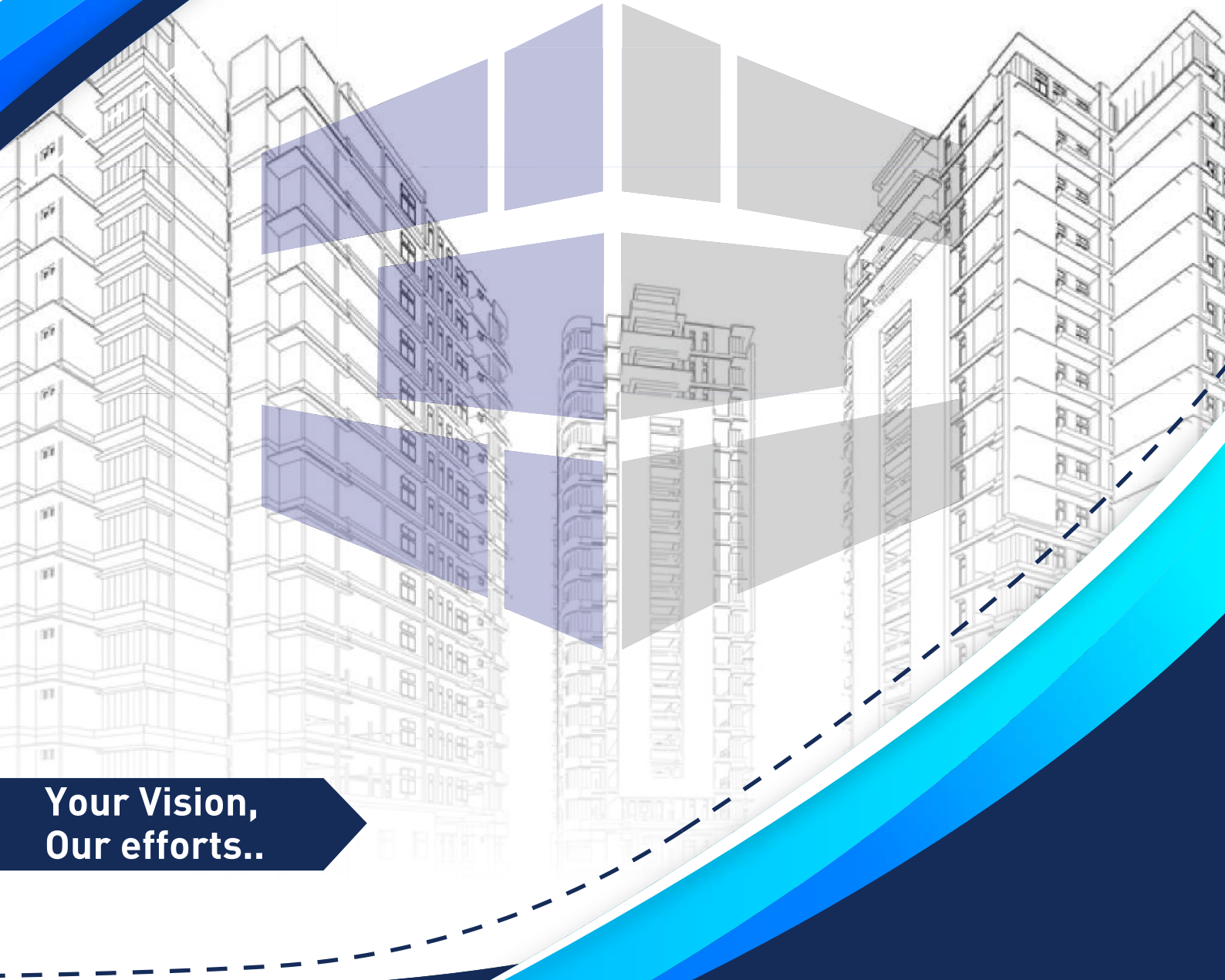


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EN-FAB INCORPORATION



Your Vision,
Our efforts..

Contact Us :

MR. NILESH SHETH : +91 73832 12300
MR. NIKHIL SEDALIYA : +91 81281 85779
MR. HASMUKH BHAI : +91 99986 78239

info@excellentenfab.net

www.excellentenfab.net

eefincorporation@gmail.com





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ABOUT US:

EXCELLENT EN-FAB INCORPORATION is one of the experienced company in design and manufacturing Of AAC Block plant, Drying plant and many more Process Equipments. Our mission is to produce high quality and reliable products as well as various equipments with best installation service to the client / customer. We use our technical expertise to help our customer / client is a competitive advantage. Our proactive approach to technical issues enables our customers to understand and implement cost-effective solution in design, fabrication and Manufacturing.

OUR VISION :-

The Planning and Design of Our Plant encompass all the basic principles which are fundamental to "Always better than the Best Quality, Service and Value"

- Quality** : Proven Technology, Customized Solutions and Durable Equipment's.
- Profitability** : Economical – Without Compromising Efficiency.
- Safety** : Comprehensive Safety solution in Consultation with the Customer.
- Teamwork** : We create and deliver better solution together.
- Innovation** : Always Looking ahead, we seek new ideas, creativity and continues improvement.
- Integrity** : We keep our word, Guard Confidentially and Maintain a high level Integrity.

AVAILABLE FACILITIES

- SHOP FLOOR AREA : 12000 Sq. FEET
- OVERHEAD CRANE : 2 CRANE [10.0 M.T + 7.5 M.T]

MACHINERY:

- HEAVY DUTY ARC WELDING MACHINES
- HEAVY DUTY MIG WELDING MACHINES
- ARGON WELDING EQUIPMENTS, OXYFUEL CUTTING SET
- PLASMA CUTTING SET
- PILLAR,RADIAL & MAGNET DRILL MACHINE, 4 FEET LATHE MACHINE
- GRINDERS & OTHER EQUIPMENTS

R & D UNIT & TRIAL FACILITY:

WE HAVE FACILITY OF PILOT MACHINERY FOR AAC BLOCK PLANT, SPRAY DRYER, SPIN FLASH DRYER AND ROTARY DRYER.



eefincorporation@gmail.com



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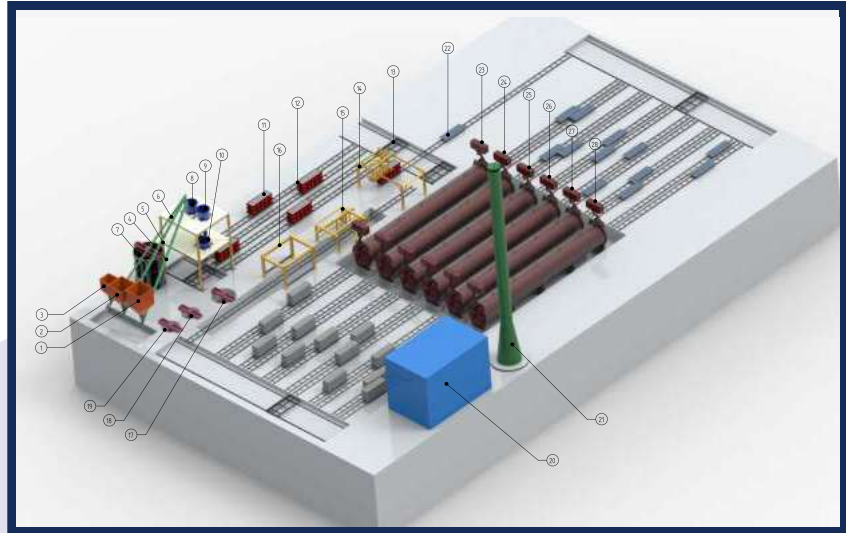
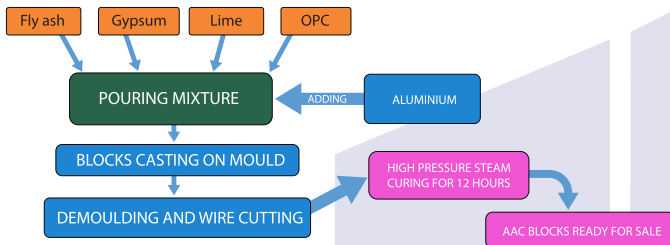
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AAC FLOAT BLOCK PLANT

WHAT IS AAC BLOCK?

- *Autoclaved aerated concrete blocks (AAC) was made in Sweden in 1924. It has become one of the most widely used construction materials in European countries and is growth all over the world. The AAC is produced by materials such as limestone, fly ash, cement, and water and a small amount of ascending agent.*

AAC BLOCK MANUFACTURING PROCESS



Advantage of AAC BLOCK

- 1) *Easy workable, Lightweight. ...*
- 2) *Resistant to pest and moisture.*
- 3) *AAC concrete uses fly ash about 60 to 75 %.*
- 4) *It has resource efficient manufacturing process.*
- 5) *AAC's lightweight saves on labour costs.*
- 6) *Fire Resistant. ...*

Disadvantage of AAC BLOCK

- 1) *The Presence of voids makes them extremely brittle. Nature which means they can break easily. They need to be handled more careful to avoid breakage and wastage.*
- 2) *Get cracks easily installations. As the surface is very smooth, plastering doesn't stick very to it hence plaster starts to crack in few months.*
- 3) *These blocks often show Inconsistency in quality and color. You just can't hammer to fix furniture in the AAC blocks wall,*
- 4) *You need to use a drill bit a raw plug.*

AAC BLOCK APPLICATIONS :-

- Residential
- Commercial
- Low cost Housing
- Fire & Sound proof wall
- Educational
- Hospitality
- Industrial

AUTOCLAVE MANUFACTURE :-

Size :- Ø 1200 to 2680 diameter
 Size :- Ø 1200 to 3500 for rubber insulation.
 Long :- 11000 to 38900 mm
 Using prime raw material like M.S 516 gr 70,
 we do 100 % radiography testing.

WHY TO CHOOSE US?

- *Excellent En-Fab Incorporation provides total solution for small scale to major scale AAC (AUTOCLAVED AERATED CONCRETE) Plant capacity 30 m³/day to 508m³/day.*
- *Long lasting & reliable solution. We design customized plant as per client. Having advance design software for designing.*
- *We design AAC units according to the client requirements and specification with respect to the site conditions and economic factors.*
- *Using advance we execute the AAC block plant on a turnkey basis where we manufacture the machinery and install at clients location.*



eefincorporation@gmail.com



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ACTIVATED BLEACHING EARTH

Bleaching Earth is manufactured from the best quality, selectively mined and scientifically blended montmorillonite clays under stringent process controls Oils.



APPLICATION & USES OF BLEACHING EARTH

- Refining of Vegetable Oils Like: Soya bean, Sunflower, Palm, Palm-kernel, Cottonseed, Rapeseed, Mustard, Peanut, Coconut, Corn, Olive, Rice bran, Castor, & Canola Oils.
- Refining of Mineral Oils Like: Paraffin's and waxes, Insulating oil, rolling oil, white oil, waste oil, industrial triglycerides and fatty acids.
- Refining of hydrogenated vanaspati ghee oils, margarine & shortening.
- Refining of Animal fats like tallow oil, fish oil, lard oil.

BLEACHING EARTH FINDS USE IN FOLLOWING FIELDS

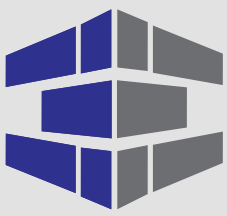
- Refining of Vegetable oils
- Refining of hydrogenated Vanaspati ghee oils, Margarine & shortening
- Refining of Animal Fats like tallow oil, fish oil, lard oil
- Refining of Mineral Oils like
- Insulating oil
- Rolling oil
- Lube oil
- Waste oil
- Industrial triglycerides and fatty acids used for paints, varnishes and soaps
- Paraffin's and Waxes
- Decolourising by removing colour pigments like carotenoids, chlorophyll, Pheophytine
- Removal of gums (phospholipids), FFA and soap contents and traces of heavy metals in vegetable oils
- Reducing and controlling different oil parameters like Peroxide value, Anisidine value, UV-absorption value, FFA contents etc.
- Purification of Aromatic Compounds in case of mineral oils & waxes and removal of Sulphuric acid, Tars acid, Sludge, Sulfonic acid etc.
- Other Applications like,
 - 1) Bleaching of Sulphur
 - 2) In Effluent treatment plants



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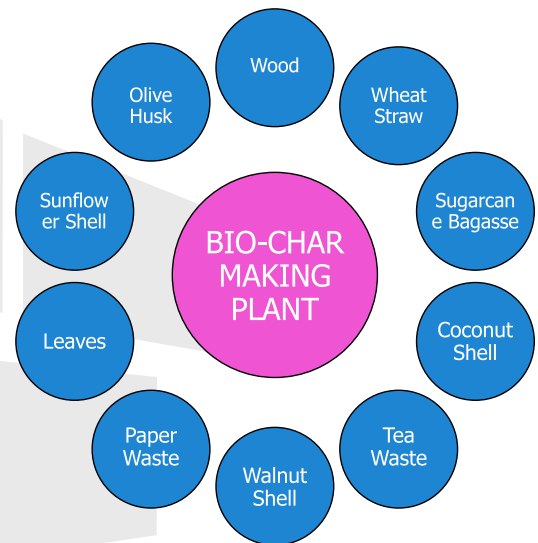
AGRO WASTE BIO PYROLYSIS PLANT

INTRODUCTION

- The application of biomass fuels for energy production can contribute to reducing the emission of greenhouse gases and other pollutants, which is essential for reaching recent emission targets.
- The Temperature range for slow pyrolysis of biomass is 300– 650 °C, according to the most frequently quoted ranges in the literature presented by Basu.
- The Pyrolysis process involves very complex and diverse chemical reactions occurring instantaneously.
- Plant Capacity : 800 to 3000 Kg/Hr. – Feed Stock.



INPUT RAW MATERIAL



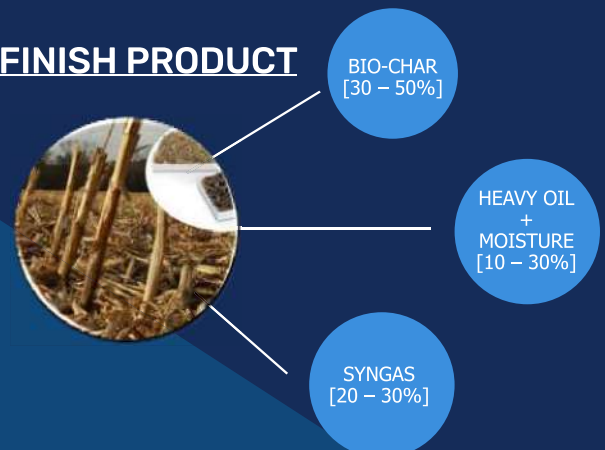
PROCESS

- The mass balance for the oat straw pyrolysis process shows that as the pyrolysis temperature increased, a significant increase in the Pyrolytic gas and tar yields was achieved.
- The yield of gas increased from 13.1% at 300 °C to 16.3% at 600 °C. The solid product yields declined as the temperature increased, and the char concentration increased from 48% at the lowest temperature to 24% at the highest Temperature.
- The mass yields of the liquid products followed a trend similar to that of the Pyrolytic gas yield and the highest tar content (57%) was obtained at 600 °C.

APPLICATION INDUSTRIES

- Output Material will be used in Various Industries like,
 - Carbon Industries
 - Oil Distillation Plant
 - Fuel Industries
 - Pesticides Industries
 - Steel Industries
 - Cosmetic Industries
 - Many More.

FINISH PRODUCT



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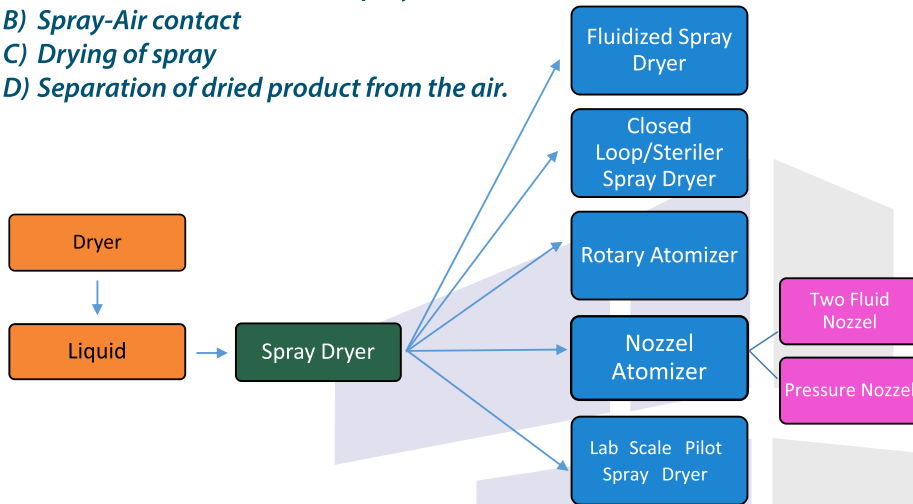
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PROCESS OPERATION

SPRAY DRYING SYSTEM CONSISTS OF FOUR PROCESS STAGE.

- A) Atomization of feed into a spray.
- B) Spray-Air contact
- C) Drying of spray
- D) Separation of dried product from the air.



- On advance technology and a real understanding of customer needs in the Food, Beverages and Chemical Industries.
- We understand the need of the customers, who are under increasing economic competitive and regulatory pressures and partner With them to design and deliver the most reliable, efficient and innovative solutions for the process and overall project implementation.
- As the name suggests, the spray drying machine is special equipment that adopts spray drying to produce dry powder from a liquid or slurry by rapid drying with a hot gas. Spray drying is the most economical method of evaporation to produce dried powder.

APPLICATION :-

1) FOOD INDUSTRY

- Egg products
- Food products
- Food additives
- Herbal extracts
- Vegetable proteins

2) CERAMIC INDUSTRY

- Alumina
- Ceramics
- Ferrites
- Silicon carbides
- Zirconia
- Glass slurry

3) INORGANIC CHEMICALS

- Aluminium chloride
- Barium sulphate
- Silica
- Manganese sulphate
- Sodium silicate

4) BIO CHEMICALS & PHARMACEUTICALS

- Herbal extracts
- Meat extracts
- Mineral extracts
- Dextrose
- Lactose, protein, Haemoglobin

- We are maintaining strict quality control throughout the manufacturing process right from raw material purchase to testing to manufacturing and erection and commissioning of the equipment.
- We have better workmanship and a good customer relationship through out the nation. We have supplied plants all over India for a variety of application as reflected in our client. We have a well experienced erection team to do the erection of equipments.



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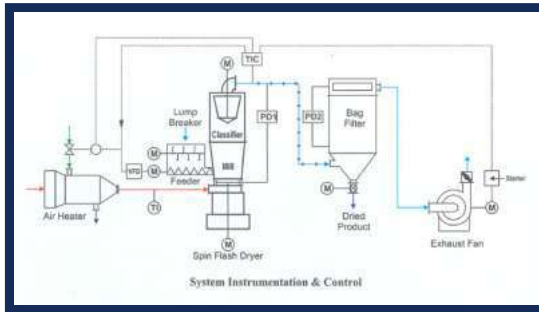
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SPIN FLASH DRYER

Spin flash dryer is a vertical dryer with rotary pulverizing device, which can simultaneously dry, pulverize and classify materials. It is a continuous drying device specially designed for drying filter cake, paste and muddy materials.



PROCESS APPLICATION :-

- **Dyestuffs/Pigments:** Iron Oxides, Titanium Dioxide, Copper Phthalocyanine, Zinc Phosphates, and Organic & Inorganic Pigments.
- **Ceramics:** Silica, Bentonite, Kaolin.
- **Organic Chemicals:** Optical brighteners, Flame Retardant Polymers.
- **Inorganic Chemicals:** Metal Carbonates and Hydroxides, Calcium Phosphates, Zeolites.
- **Agrochemicals:** Herbicides, Fungicides
- **Waste products:** Sludge Sediments
- **Suitable for pharmaceutical and food industry.**

ADVANTAGES: EXCELLENT EN-FAB INCORPORATION SFD OFFERS FOLLOWING MAIN

- Ability to handle filter cakes, pastes and non pumpable viscous liquids, Continuous operation.
- Compact design demanding less space, Effective heat & mass transferrates.
- Easy to maintain with very low down time, Users friendly design.
- Drying of non-heat sensitive products at very high temperatures up to 250°C.
- Capacity to dry heat sensitive products at fairly low temperature.
- Choice of direct and indirect heating. Indirect heating with hot air generators or steam/thermic fluid heated finned tube heat exchanger giving choice of fuels to be used.

WORKING PRINCIPLE

- The clean thermal medium heated by the heat source enters the drying chamber in a tangential form, forming a powerful vortex swirling airflow with the mechanical agitation mechanism.
- The wet material is metered into the drying chamber by a feeder, pulverized and dried by stirring and vortex flow.
- The top of the drying chamber is set with a particle size classifier.
- The Fine powder that meets the drying requirements is discharged from the top of the tower and collected by the latter separator.
- The larger particles that do not meet the drying requirements are blocked by the classification ring, returned to the drying chamber, and continue to be pulverized and dried.



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ROTARY DRYER

With firm commitment towards quality, we are manufacturing and supplying a wide range of Industrial Dryers. The dryers also known as the machinery Equipment which are used in various industries for drying and evaporating moisture or any other kind of solvent purposes. Our specialty dryers are study in construction and are highly efficient. The dryers are demanded in the drying plants for dairy, food, chemical and pharmaceutical industries.

APPLICATION

- Rotary drum dryer are mainly used in drying for processing powder or small particles. Materials such as high moisture can be used. Suitable for chemical, mining, metallurgical and other industries.

PRODUCT FEATURES

- 1) Simple system, safe and easy to operate
- 2) It has good uniformity, fluidity, solubility, high purity, and quality.
- 3) Short drying cycle, high efficiency and energy saving
- 4) Large output and high efficiency. For unbound water, the thermal efficiency can be as high as 60%



THE MATERIAL HELD UP TIME IS DETERMINED BY :-

- 1) The speed of rotation.
- 2) The angle of inclination.
- 3) The air velocity.

CLASSIFICATION OF ROTARY DRYERS

BASED ON THE METHOD OF HEAT TRANSFER, ROTARY DRYERS CAN BE CLASSIFIED INTO;

1. Direct-heated rotary dryer.
2. Indirect- Direct rotary dryer.
3. In-direct rotary dryers comprises of a rotaring shell having a concentric inner sheel. Hot products of combustion passed through the inner concentric sheel not coming in contact with the product. The product is dried by radiation and conduction.
4. Special type.

TYPES OF ROTARY DRYERS

- A) Direct rotary dryer
- B) Direct rotary kiln
- C) Indirect steam-tube dryer
- D) Indirect rotary calciner
- E) Direct Roto-Louvre dryer

ADVANTAGES OF ROTARY DRYER

- A) Rotary dryers are less sensitive to particle size.
- B) It can accept the highest flue gasses of any type of dryer.
- C) Low maintenance cost; thus economical.
- D) It has the greatest capacity than any type of dryer.



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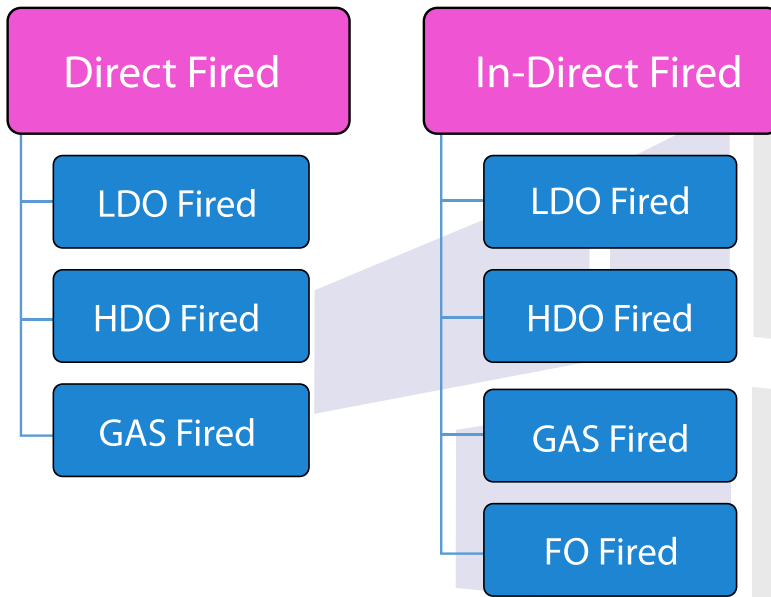


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HOT AIR GENERATORS

The hot air generators are compact combustion chambers used in a large number of industrial applications. These units produce gases at different temperatures starting from the combustion of different fuels such as natural gas, diesel, fuel oil, etc.

CLASSIFICATIONS



APPLICATIONS

- *Soil Industry: Artificial drying chambers of brick plants. Sand drying rotary furnaces. Gypsum Block- Gypsum Panel drying kilns.*
- *Chemical Industry: Detergent manufacturing towers, Fertilizer Industry: Rotary fertilizer drying kilns.*
- *Sugar Industry: Pulp drying kilns, Paper Industry: Continuous paper drying.*
- *Packaging Industry: Print paste drying, Metal Industry: Stress relief furnaces*

WE INSTALL WOOD PELLET FIRED BURNER WITH FOLLOWING FEATURE -

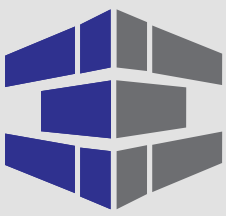
- *Specially Designed for continuous industrial operation.*
- *Very low Sox-Nox which completely under limit of pollution control board.*
- *Lower cost of fuel compared to Oil (HSD/LDO/FO) & Gas (LPG/PNG/CNG/Propane).*
- *Auto adjusting modulating firing mode based on feedback of process temp/pressure.*
- *Equal quality, un-interrupted availability of pellets, all the seasons.*
- *Very small ash content as residue after burning i.e. below 3-5%.*
- *Highly efficient (90-95% ij) controlled combustion with PLC controlled el panel.*
- *Compact sized installation compare to Wood Gasifier system.*



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EVAPORATORS

Evaporation is an operation used to remove a liquid from a solution, suspension, or emulsion by boiling off some of the liquid. It is thus a thermal separation, or thermal concentration, process. We define the evaporation process as one that starts with a liquid product and ends up with a more concentrated, but still liquid and still Pumpable concentrate as the main product from the process.

BASED ON HEAT TRANSFER

Falling Film Type
Evaporator

Forced Circulation Type
Evaporator

Hybrid Circulation Type
Evaporator

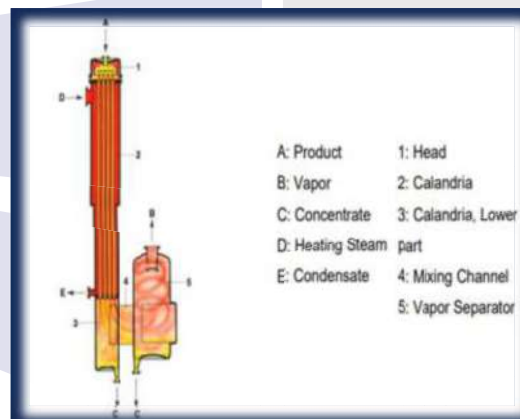
Natural Circulation
Evaporator

Rising Film Type
Evaporator

BASED ON OPERATION

Single effect

Multiple effect



APPLICATIONS

- Food
- Herbal Extracts
- Pharmaceuticals
- Dairy
- Dyestuff
- Black Liquor in Paper & Pulp
- Sugar Syrups

FEATURES

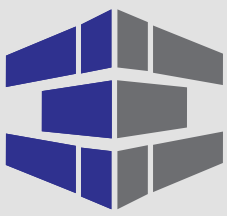
- Principles of Operation
- Single or multiple units with high heat economy
- Low power requirement
- Continuous, single pass operation with minimised retention times
- Ideal for clear, heat sensitive, foaming and corrosive solutions
- Simple construction
- Low floor space requirement



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DRY MIX MORTAR

INTRODUCTION

Dry Mix Mortar is amongst the most versatile material used in modern construction industry. It serves to lay bricks & other masonry blocks, coat building as renders & skim coat & fix tiles. Now a days all Indian & Foreign construction Industries are demanding for new improved building material. Today the Dry Mix Mortar is conquering the market by replacing the traditional job site mixing mortar because of its various advantages.

Dry mix mortar plant is used to produce a kind of construction material – dry mixed mortar. These dry mortars include ordinary and specific mortars, such as.:

- *Wall Plaster / Ready Plast. (External & Internal)*
- *Brick laying mortar / Block Jointer*
- *Base coat render / Wall Putty*
- *Water-proofing mortar*
- *Grout Mortar*
- *Tile adhesive*
- *Joint filler / Repair Mortar*



ADVANTAGE OF DRY MIX MORTAR -

- *Reduced shrinkage cracks through better cement hydration*
- *No delaminating or pop-out on smooth or concrete surface due to very good bond strength*
- *Good workability and sag resistance*
- *Very good compressive flexural and tensile strength than ASTM standard values*
- *Good water resistance property, Better flexibility*
- *Consistent quality, Easy to mix and apply*
- *Better finish and surface appearance, Almost nil wastage of the material at site*
- *Minimum space required for the storage, Inventory cost saving*
- *No multiple raw material(sand, cement and additives), Minimum supervision requires*

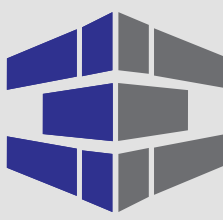
Dry Mix Mortar is produced in specially designed dry mix mortar plants in which binders and aggregate are mixed in the appropriate way and are transported to construction site into the bags or silos and need only be mixed with water prior to use. This factory based process also allows different additives and admixtures to be added to these mortars to improve significantly their technical performance. Based on this technology individual Dry Mix Mortar for specific application can be produced.



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EXCELLENT
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MFG.AAC BLOCK PLANT & DRYER

COMPANY PROFILE

- **EXCELLENT EN-FAB INCORPORATION** is a recognized name involved in the n rade of products in the INDIA. The Company Operates as a Manufacturer of Products Like AAC BLOCK PLANT, Thermic Fluid Heat powder conveying machinery, hot air generators, storage equipment's and self-supported M.S. Structure etc. Designed to Precision, at our facility, our offerings Has no Match in The Market.
- **Leading Market Player.** The Company is Based in AHMEDABAD (GUJARAT INDIA). We cater to retail and bulk product demand with a Novel Approach.
- **The Company has its own facility featuring best-of-breed technology-based machinery & other amenities. Besides, we keep evolving our Production techniques to meet the emerging demands of the Buyer with Ease. A team of Professional is entrusted to Administer our Company Operations.**



ADDRESS :-

EXCELLENT EN-FAB INCORPORATION

Plot No. 372/3/2, Gamdi Gam Road, Village Gamdi ,Near Gandhi Farm,
Dist.Daskroi, Ahmedabad Gujarat,-India-382435

Contact Us :



MR. NILESH SHETH : +91 73832 12300
MR. NIKHIL SEDALIYA : +91 81281 85779
MR. HASMUKH BHAI : +91 99986 78239



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