

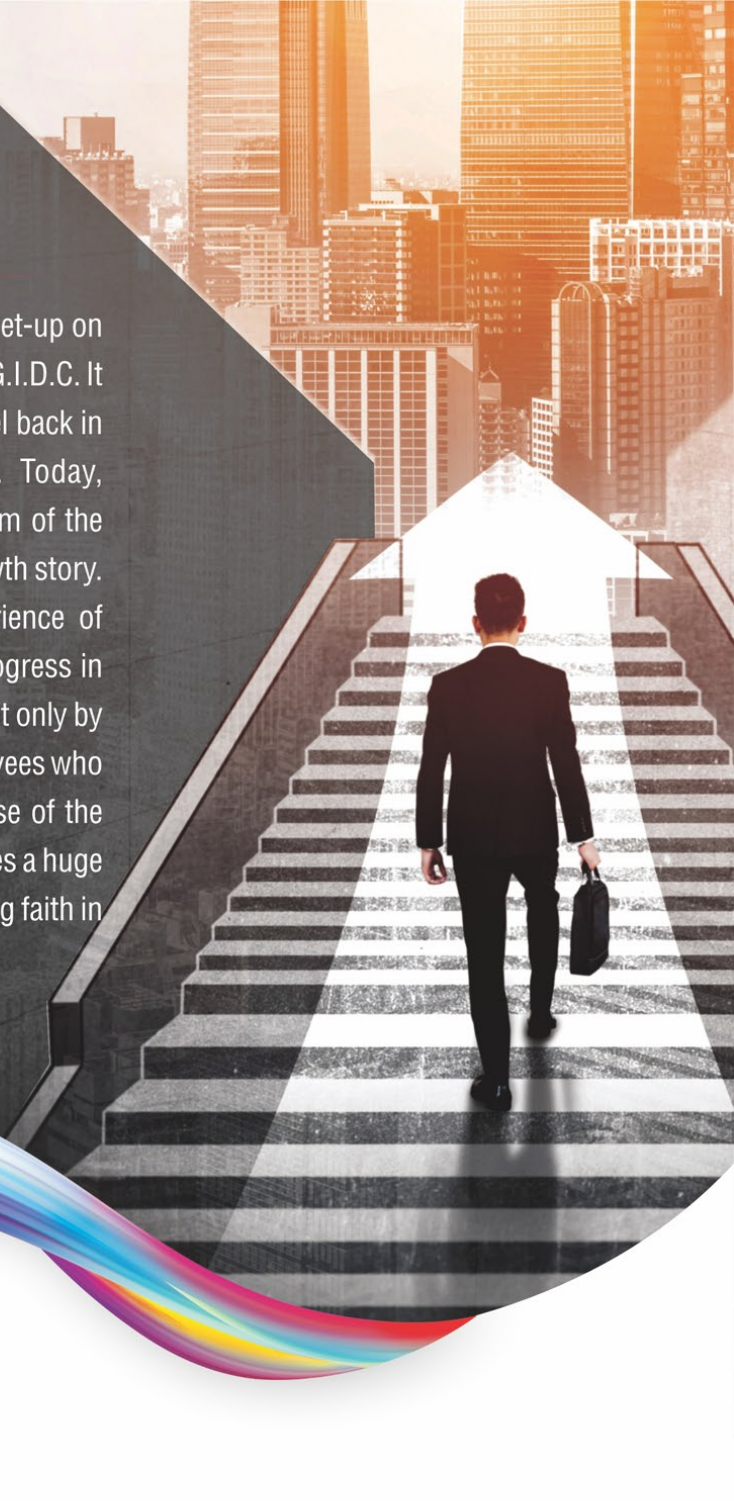


**EXCELLENCE IN MANUFACTURING
THROUGH QUALITY ENGINEERING**



PROFILE

NITA ENGINEERING is a private company with its factory set-up on the Odhav-Kathwada Highway, situated near village Odhav G.I.D.C. It was started by a visionary technocrat, Mr. Valjibhai S. Patel back in 1986 to manufacture world class heavy machinery. Today, Mr. Valjibhai's son – Mr. Sureshbhai V. Patel is at the helm of the company, driving it towards an exponential and iconic growth story. Under the new leadership with the guidance and experience of Mr. Valjibhai, Nita Engineering has shown tremendous progress in all the sectors that it functions in. This success is shared not only by the two dynamic directors but also the entire team of employees who have shown unprecedented support throughout the course of the company. Last but definitely not the least; the company owes a huge amount of gratitude to its most valued customers for putting faith in their products.



INFRASTRUCTURE

Nita Engineering has an incredible infrastructure facility built with thorough planning and a vision towards the future. The facility is situated on the Odhav– Kathwada highway, Odhav G.I.D.C.. The entire factory building is designed in such a way that it facilitates the processing of approximately 300 yard of a series of reactors, fully equipped with condensers, receivers and boilers to process all kinds of chemical, resins and paint machineries.

The company is a well-reputed exporter of heavy machineries, hence its production facility is designed to meet and even surpass the most stringent international manufacturing standards. **Nita Engineering** designs and manufactures all major kinds of chemical, resin and paint machineries of international standards to multinational companies, large, medium and small scale Indian industries as well.

QUALITY

Nita Engineering understands the importance of quality control to cater the clients with the best quality manufacturing machinery. Our state-of-the-art factory is equipped with the latest quality control facilities which not only test the raw materials but also the finished products as well. Timely delivery of products is one of our fortes which further establish us as a highly reputed manufacturer in the industry. Our working process control laboratory functions round the clock to make sure every product leaving from the facility with **Nita Engineering** tag has a consistently high quality. We're always looking towards the future to update the quality of our products along with developing newer and better products for both national and international markets. This lets us stay several steps ahead in the competition by delivering products that are of topmost quality at competitive market rates.



VISION

We work with a vision to become a premier chemical, resin and paint manufacturer, manufacturing wide varieties of world class technology products. As technocrats, we rely on our experience and expertise to design and develop machines not only for the present but for the future too. R&D has been the company's major motive towards success so that there is continuous product innovation and quality improvement. We commit ourselves to achieve perfection in customization through development of right quality products along with reliable information, delivery and other services.

APPLICATIONS

We manufacture a wide range of machineries that find application in various industries and segments. Our range of chemical machineries takes care of many aspects of the chemical industry. Our range of machines designed for the paint industry helps our clients to manufacture all kinds of top quality paints in the most efficient and economical way. We also find application in the resin industry with our world class resin machineries for every step of the process. Moreover, we also manufacture boilers, oil circulation pumps, water pressure pumps, vacuum pumps, gear boxes, motors etc. & enable our clients to set up their entire manufacturing facility with the highest quality production capacity. We excel in providing tailor-made solutions to all our clients with the capacity to manufacture machines exactly as per their requirement, building not only goodwill but also enabling customised business solutions.



Bead Mill

Bead Mills reduce particles to sub micron size. Consisting of a cylindrical vessel that contains a motor-driven central shaft, which is equipped with impellers of different types. Bead mill comes with an enclosed vessel. While operating this enclosed vessel is filled with grinding media, agitator shaft activates media, creating shearing and strong forces. Rotation of agitator imparts energy to surrounding media. Forces either fracture, tear, or crush particulate. It can be operated continuously since it is equipped with devices, which retain the beads within the milling chamber. Then the final product is evenly dispersed in liquid.

Bead Mill Advantage:

- Faster Grinding Time
- Easy Cleaning
- Low Noise Level
- No Maintenance Cost
- Need Short Space
- No Require Special Foundation

Bead Mill 4 Ltr.



Bead Mill 20 Ltr.



Bead Mill 30 Ltr.



Bead Mill 50 Ltr.



Twin Bead Mill



Bead Mill 100 Ltr.



Bead Mill 200 Ltr.



Twin Shaft Mixer

Twin Shaft Mixer



Twin Shaft Mixer
with Panel



Twin Shaft
Automatic



Ball Mill

Ball Mill one of the oldest and safest methods for grinding of a wide range of materials of hardness upto 8 on Mohs scale. Can be used for grinding of practically any material wet, dry or sticky. Size material of construction mild steel. Having total volume capacity in litres main shell will be fabricated in mm thick plate and side plate will be mm thick and further supported and stiffened with mild steel heavy duty ribs and backing plates to with stand heavy loads from outside. Main shaft will be mm dia located on heavy-duty bosses and rotate on roller bearings complete with plumber blocks and sleeve nuts. A discharge door main hole of the cylinder will be for liquid or solid discharge is provided with the mill along with manhole cover if required. Main shaft will be turned through from one end to another end. The entire mill is mounted on a sturdy frame structure made from ISMC sections. Hence complete with material as per our standard design.

Vertical Ball Mill



Lab Ball Mill



Ball Mill 500 to 2000 Ltr.



Attritor

Attritor is used for producing fine & homogenous dispersions quickly & repeatedly under controlled conditions. Used for the manufacture of Ceramics, Inks, Paints, Coatings, Metal Oxides, Ferrites, Chocolates, Chemicals & Pharmaceuticals. The Attritor is often referred to as a agitated ball mill. The material to be ground is charged into a vertical tank filled with grinding media. Both the material and grinding media are then agitated by a shaft with arms causing the media to exert shearing & impact forces on the material. This action produces an extremely fine material measured in microns. No pre mixing is required.

Attritor 200 to 500 Ltr.



Attritor 50 to 100 Ltr.



Lab Attritor



Lab High Speed Stirrer

Portable stirrers are versatile mixers used for mixing of small quantities of liquid at slow speed. Any 1 fixed speed is provided. The units are available with various different types of impellers to choose from.



Hydraulic High Speed Stirrer



Chain Pulley High Speed Stirrer

High Speed dispenser is used in many industries for stirring purposes for Premixing, Mixing, Dispersing, Shade Matching, Homogenizing & Shearing of Liquids. High speed industrial stirrer is used in paint Chemicals, Ink, Food, Milk, Pharmaceutical Industries for thinning the colors. Machine is fully automatic Lifting and Lowering system, Speed control, batch controller full enclose type casing. Different type of mixing blade can be exchangeable. Hence, next vessel can be taken for mixing after comprehensive cleaning of the stirrer.

Lab Chain Pulley High Speed Stirrer



Hanging High Speed Stirrer



Ribbon Blender

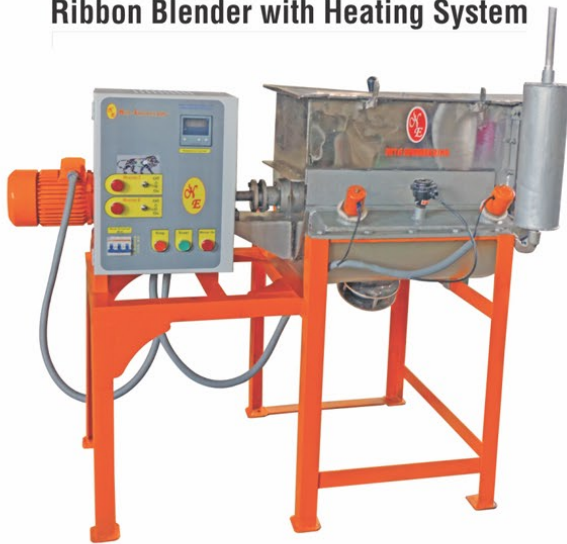
Ribbon Blenders consist of a U-shaped horizontal trough and a specially fabricated ribbon agitator. A ribbon agitator consists of a set of inner and outer helical agitators. The outer ribbon moves materials in one direction and the inner ribbon moves the materials in the opposite direction. The ribbons rotate at approx. 300 fpm moves materials both radially and laterally to insure thorough blends in short cycle times. Ribbon agitators are used for blends that will be between 40 & 100% of the rated capacity of the blender.



Vertical Ribbon Blender



Ribbon Blender with Heating System

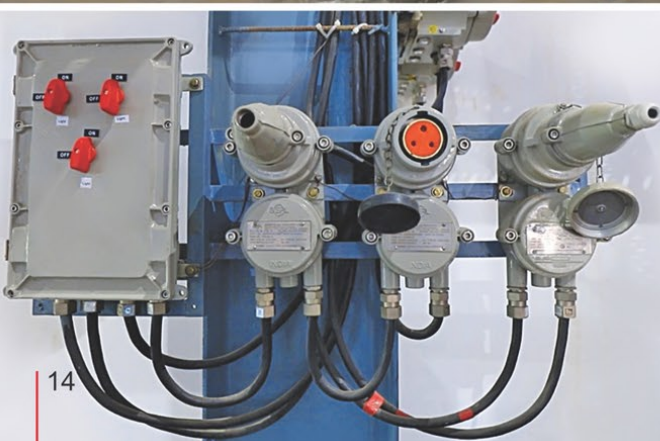


Ribbon Blender with Auto System



Jacketed Ribbon Blender







Reactor

Reactor Vessel during exothermic reaction heat will be released by reactants and during endothermic reaction heat will be absorbed. In both the processes temperature should be controlled as per process requirements for the perfect result. A jacketed vessel will facilitate the above.

Jacketed reactor has a jacket surrounding the main vessel. During reaction, temperature of reactants is controlled by circulating heating or cooling media through the jacket. Ideally suitable for the heating below 150°C (302°F). Commonly used heat transfer media include water, steam, hot oil such as Therminol™ and Dowtherm A.



Reactor with Heating System



Reactor Vessel

Chemical Reactor or **Reaction Vessel** are vessels designed to facilitate chemical reaction at elevated temperature or more as per process among various raw chemicals, known as reactants. Reaction vessels are also used for other processes such as solids dissolution, product mixing, distillation, crystallization, liquid/liquid extraction & polymerization. Reactors are also identified based on process for which it will be used. (such as blender or crystallizer).

We are a chemical reactor manufacturer for Chemical, Pharma and other Industries.



Limpet coil reactor vessels are used to control the temperature of the reactants with the help of heating or cooling media circulated through coils surrounding the main vessel. Ideally suitable for medium heat transfer requirement and heating application where heating media temperature is above 150°C (302°F). Coils are half piped welded on the outer side of the main vessel.

- Limpet coil reactor can be used for heating or cooling of the reactants.
- Suitable for high temperature (Above 150°C) Thermic fluid oil like such as Therminol™ and Dowtherm.
- Achieve heating and cooling in one reactor with double coil design.



Pilot Plant

Pilot Plant procuring superior quality raw material, we fabricate a wide range of industrial pilot plants for various industries. These are customized as per the specifications of our clients and comply with various industrial standards. We are also offering high quality fabrication services for pilot plants. Empowered with competent and experienced team of experts we are able to offer services that perfectly match with the specifications and requirements of the clients. Over the years, we have satisfactorily undertaken various successful pilot plant projects of reputed clients. These pilot plants are used widely in resin plants and chemical plants.



Tank with Heating System



Condenser



Receiver Tank



Tank with Stirrer



Storage Tank



Chemical Storage Tank



Mixing Tank

Jacked Tank





Other Products

Resin Crusher



Process Utility Piping Systems



Square Tank



Resin Storage



Trolley



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Factory Direction



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