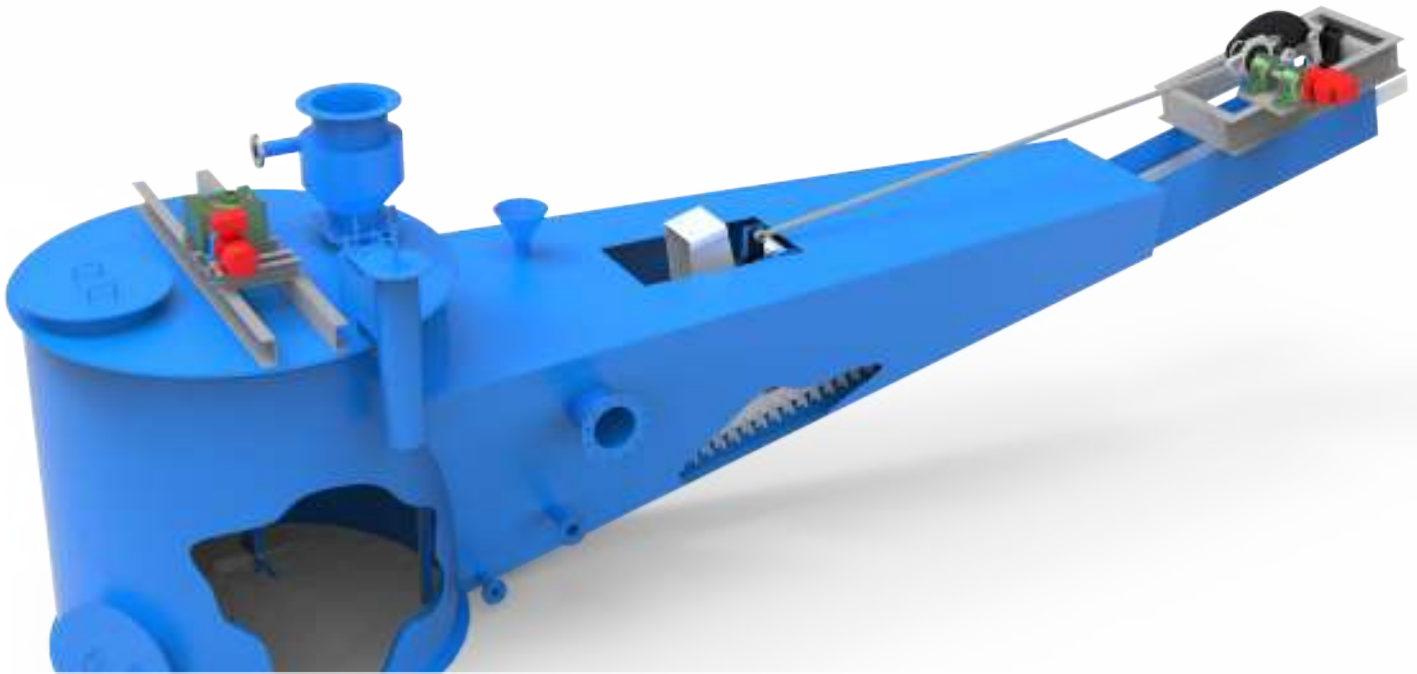


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SEDIMENTATION | FILTRATION | MIXING

LIME SLAKER

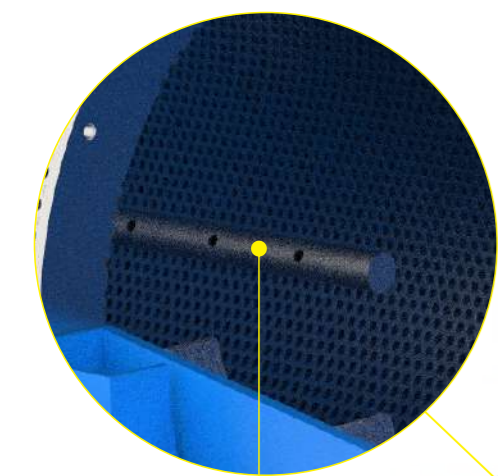


INTRODUCTION

Indofab Lime slakers are ruggedly built reliable self-contained units, used to prepare cost effective high grade milk of lime solution from Crushed Lime (CaO) at a continuous rate at desired concentration varying from 5% (50 gpl) to 15% (150 gpl). Lime Solution is very widely used in multiple industrial applications due to its economic viability.

APPLICATIONS:

Milk of Lime Solution or Consistent lime slurry is used in many Process Industries like Re-Causticizing in Paper Mills, for pH Correction reactions, High Alkaline solution preparation like in Alumina and paper industry, High Lime Dosing plants, Desulphurization reactions in PetroChemical Industry, In Flue Gas Desulphurization at power plants, Steel Mills, Mineral Beneficiation for preparation of floatation slurries and many more similar applications.



SCREEN WASH SHOWER

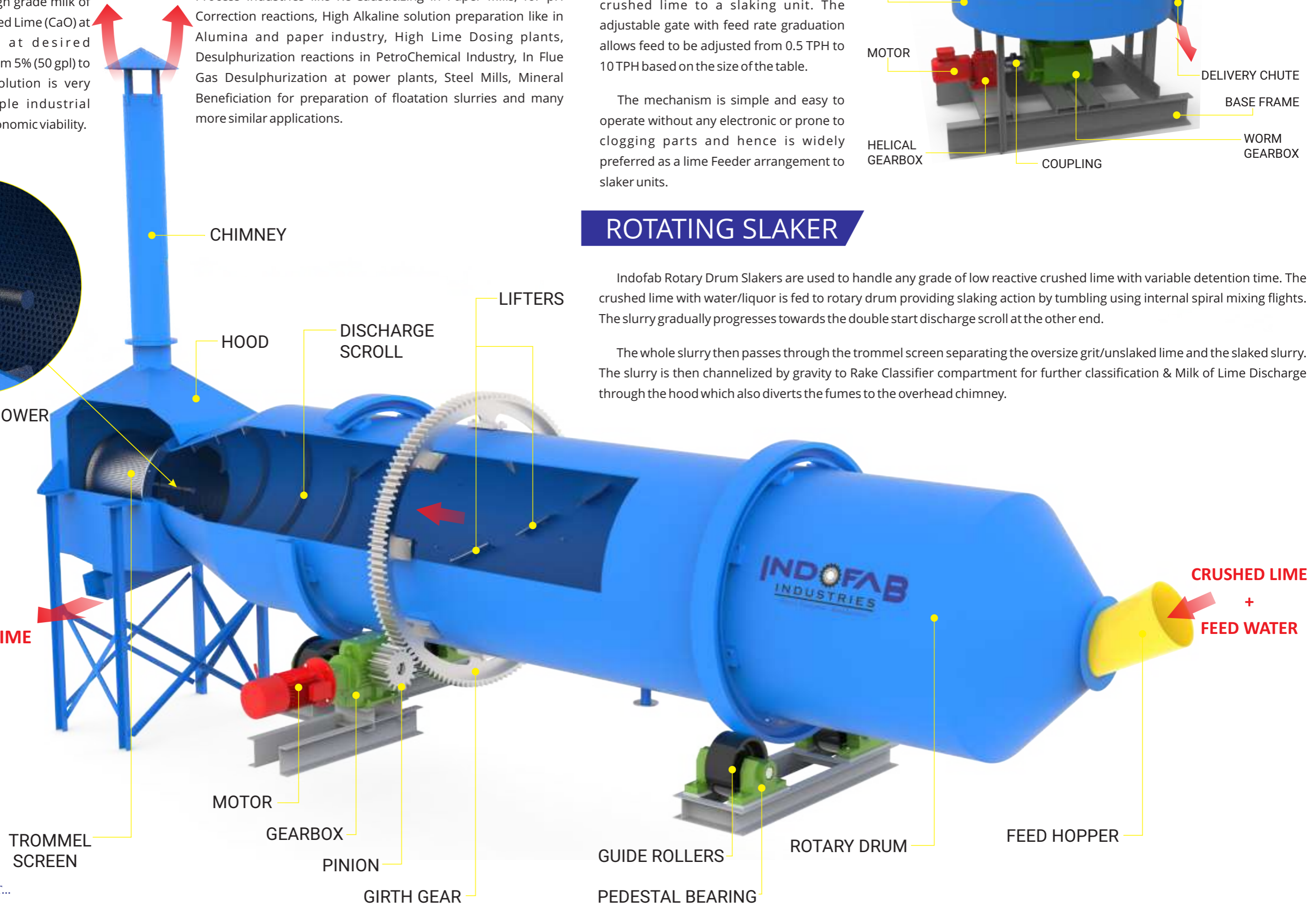
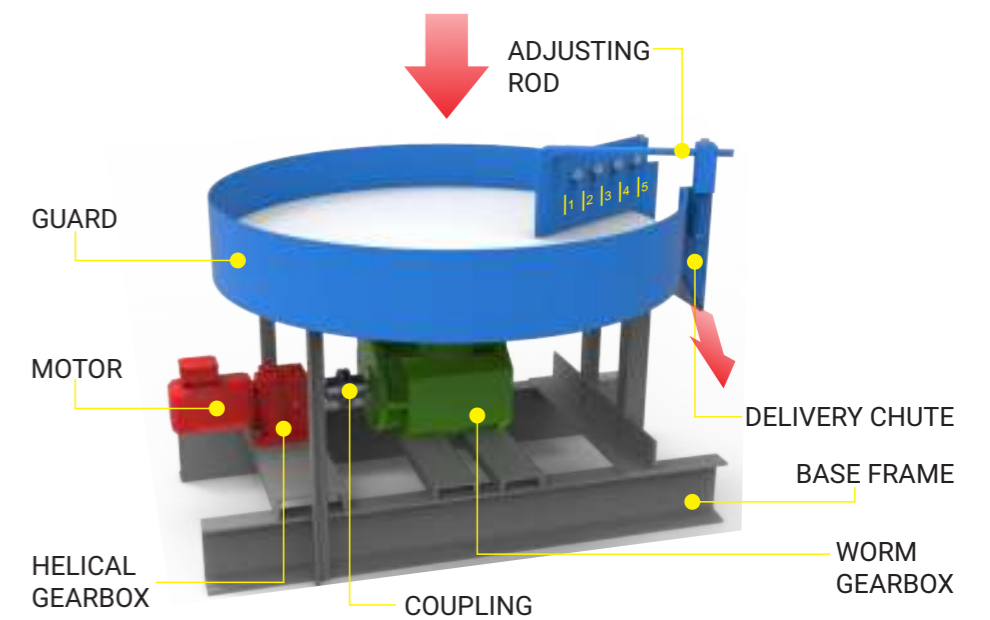


TABLE FEEDER

A simple mechanical slow speed rotary table designed to give steady feed of crushed lime to a slaking unit. The adjustable gate with feed rate graduation allows feed to be adjusted from 0.5 TPH to 10 TPH based on the size of the table.

The mechanism is simple and easy to operate without any electronic or prone to clogging parts and hence is widely preferred as a lime Feeder arrangement to slaker units.

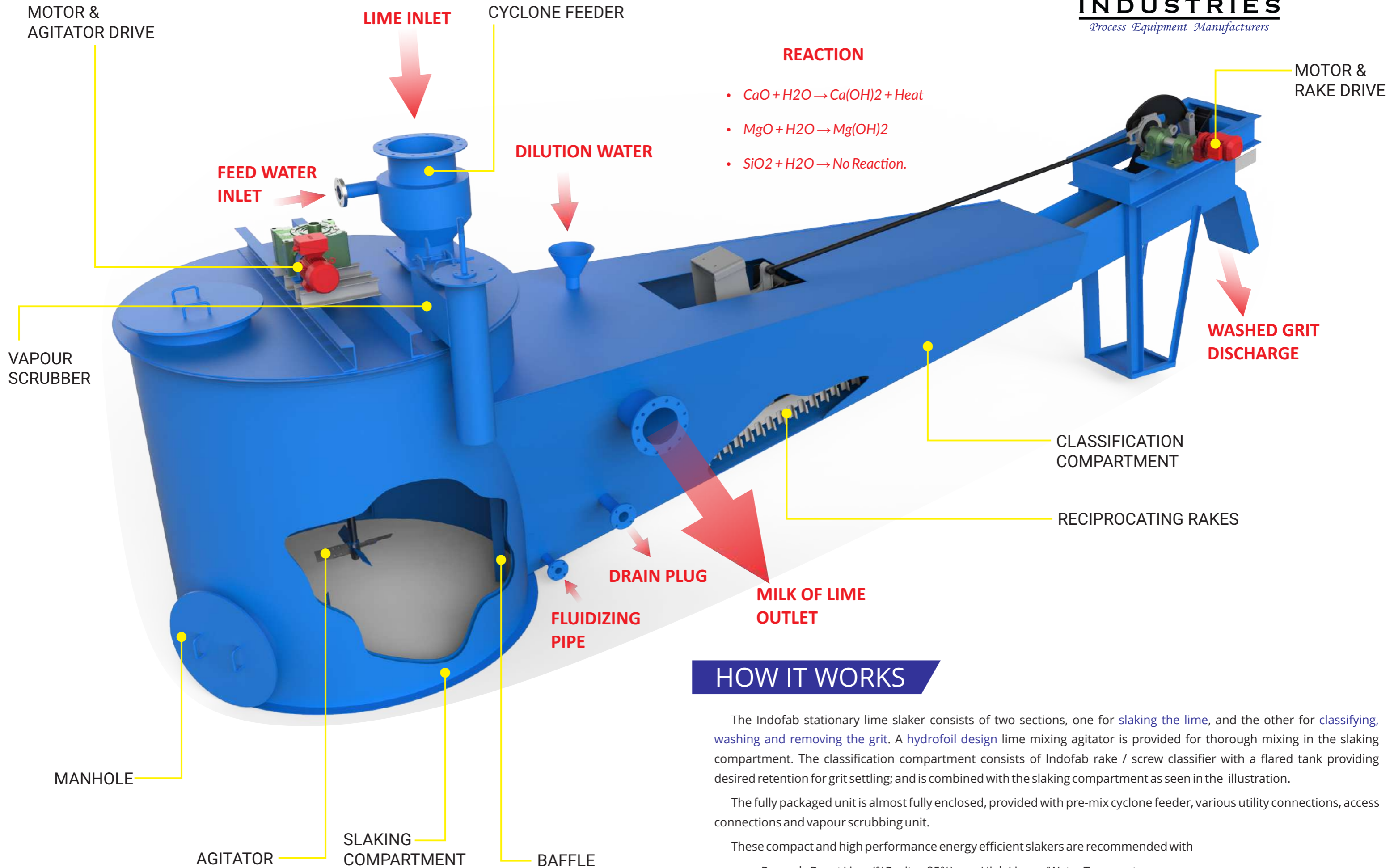


ROTATING SLAKER

Indofab Rotary Drum Slakers are used to handle any grade of low reactive crushed lime with variable detention time. The crushed lime with water/liquor is fed to rotary drum providing slaking action by tumbling using internal spiral mixing flights. The slurry gradually progresses towards the double start discharge scroll at the other end.

The whole slurry then passes through the trommel screen separating the oversize grit/unslaked lime and the slaked slurry. The slurry is then channelized by gravity to Rake Classifier compartment for further classification & Milk of Lime Discharge through the hood which also diverts the fumes to the overhead chimney.

STATIONARY SLAKER



HOW IT WORKS

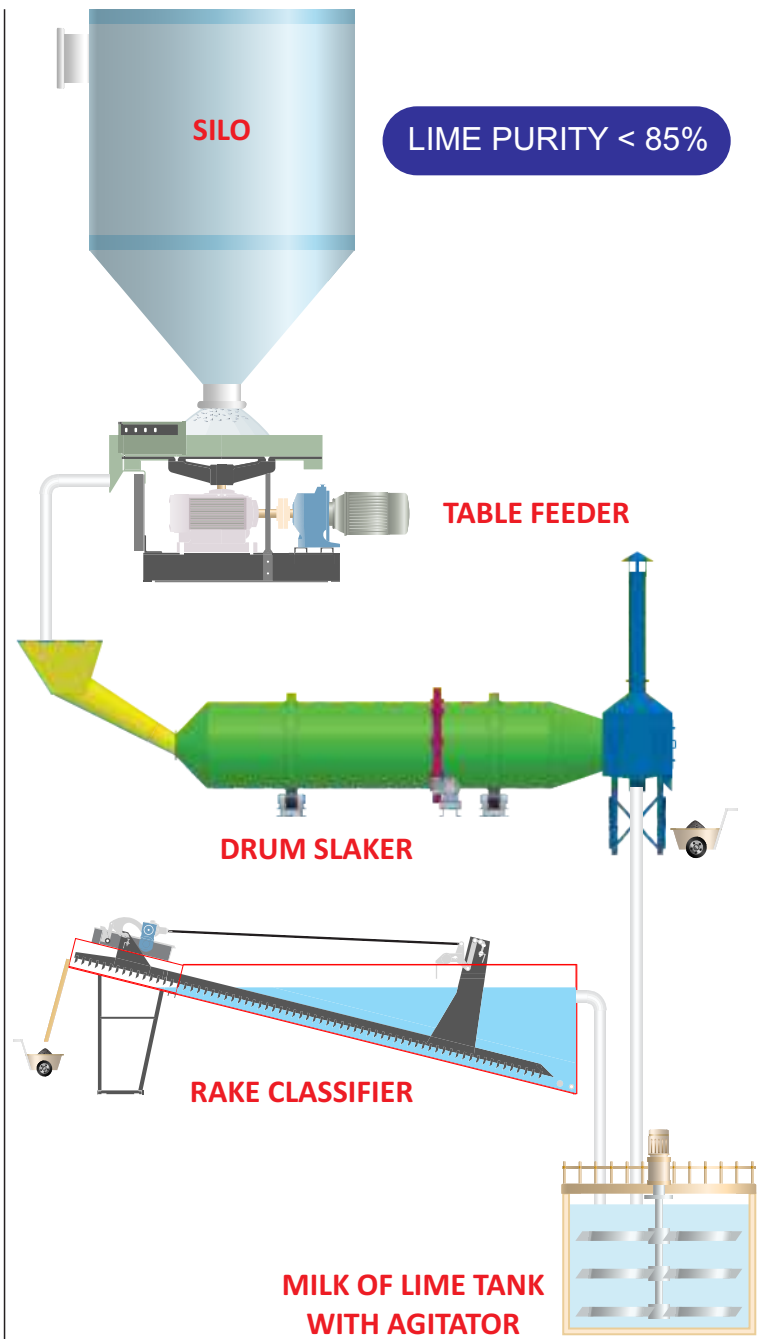
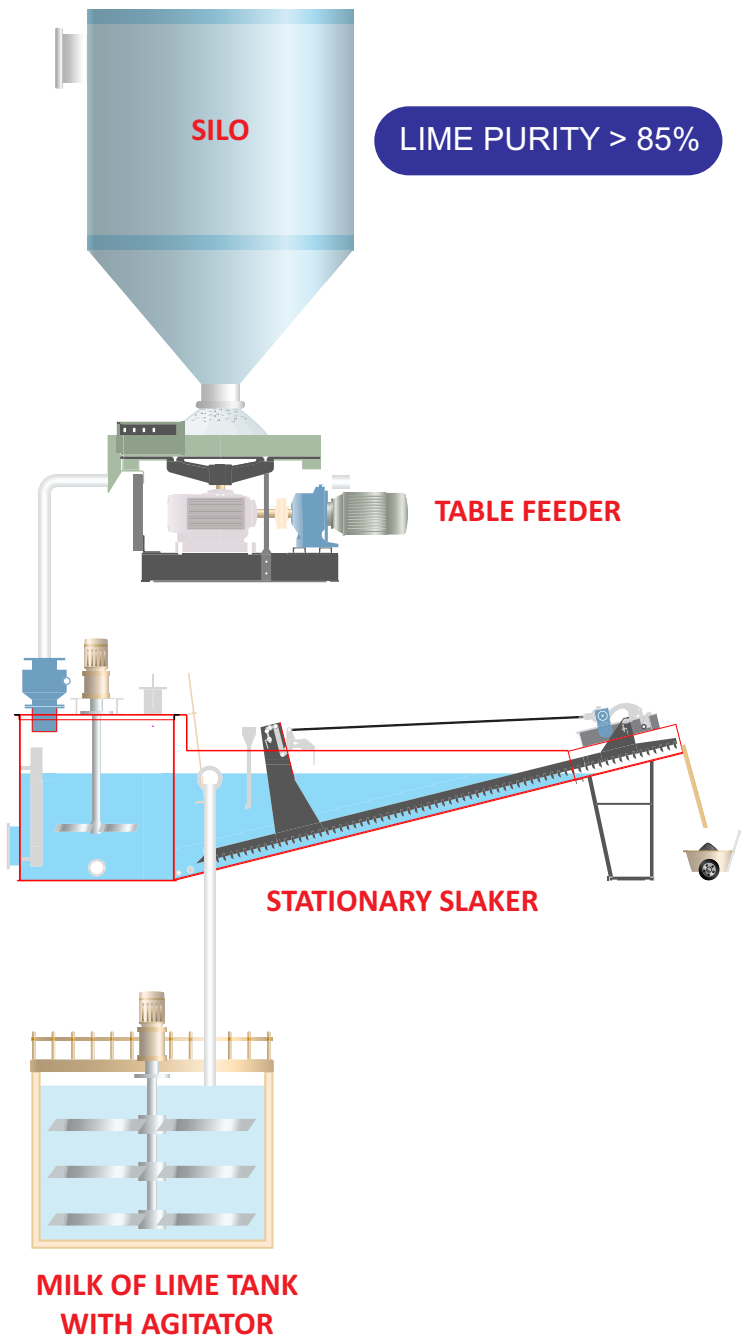
The Indofab stationary lime slaker consists of two sections, one for **slaking the lime**, and the other for **classifying, washing and removing the grit**. A hydrofoil design lime mixing agitator is provided for thorough mixing in the slaking compartment. The classification compartment consists of Indofab rake / screw classifier with a flared tank providing desired retention for grit settling; and is combined with the slaking compartment as seen in the illustration.

The fully packaged unit is almost fully enclosed, provided with pre-mix cyclone feeder, various utility connections, access connections and vapour scrubbing unit.

These compact and high performance energy efficient slakers are recommended with

- Properly Burnt Lime (%Purity >85%)
- High Liquor/Water Temperature

CRUSHED LIME FLOW DIAGRAM



Rake Classifiers used are used to segregate Milk of Lime Slurry from Grit/sand/unslaked lime stone during Milk of Lime preparation. The mechanism ensures uninterrupted continuous removal of Grit from the incoming slurry the separation mesh can be decided based on the retention time in the classifier trough.

ADVANTAGES :

- Simple And rugged in Design.
- Purely mechanical Equipment is simple to operate.
- Extremely low on Power consumption.
- Minimal downtime and spares requirement.
- Sizing flexibility for various application due to number of standard sizes.

MATERIAL OF CONSTRUCTION : Stationary & Rotary slakers are available in materials like CS , SS304/L, SS316/L, SS317/L, or with provision for Liners /Concrete Guniting. Rake & Screw Classifiers are available in CS , SS304/L, SS316/L, SS317/L or combination Materials.

CLASSIFICATION

Classification in practice is the mechanical operation that aims to separate the solid constituent of a flowing pulp/slurry stream into two fractions one with relatively fine finished product called overflow and the other with coarse raked material called the "Grit/Sand"

Applications:

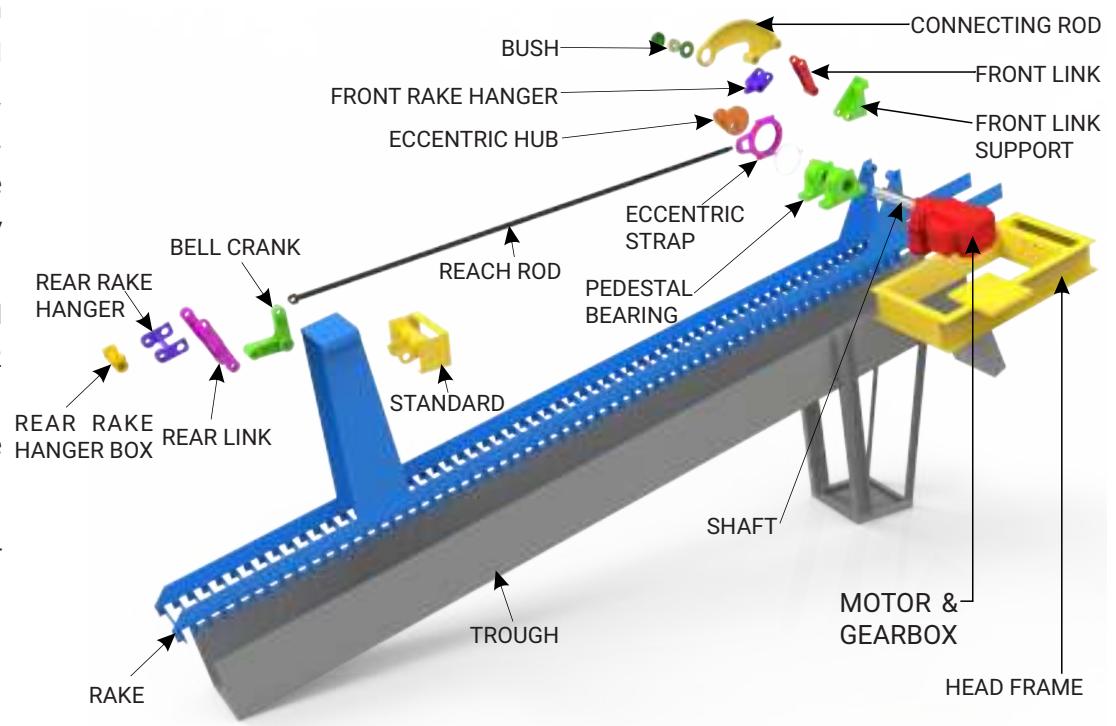
- Closed or open wet grinding circuits of virtually all types of ores.
- Classification in Mineral Industry like clay, Alumina, Red Mud, Iron ore etc.
- Foundry sand & Sand washing Reclamation system.

RAKE CLASSIFIER

This type of classifier constitutes Single or Double Reciprocating rake mechanism, which is ruggedly built with structural steel and is inclined at a specific angle (<Angle of Repose). An array of Linkages with Hinge Pin joints makes it possible for long rakes to give a uniform & consistent raking action at a very low energy. These robust mechanism is best known for its trouble free operation for years together.

The Rake mechanism facilitates higher grit removal using different Sizes i.e, 305mm, 460mm, 610mm, 760mm, 920mm in Single Rake construction while the capacity can be doubled using common drive & duplex Rake. And lengths ranging from 5 Mtr to 12 Mtr based on the Inclination angle and submergence in the trough.

Rake Classifiers are built over RCC or Metallic Troughs based on the application requirements.



SCREW CLASSIFIER



This type of Classifier consists of slow speed Single Screw enclosed in a half metal trough for positive material transfer ensuring higher rate of grit/sand disposal. Screw Diameter, length and angle of installation can be more flexibly designed to suit the application

requirements. Most common sizes are 250mm, 305mm, 406mm, 457mm and 508mm Dia. Screw Classifiers lengths ranging from 4 Mtr to 9 mtr can be built without any intermediate bearing support.

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INDOFAB INDUSTRIES is a well-known name for supply of Quality Process Equipments for past 36 years. The company has its legacy of working with top notch EPC contractors and Consultants, serving large size Project requirements for Government & Private Organizations.

INDOFAB is an ISO 9001:2015 Certified company for Design & Manufacture of Industrial Process Equipments in the field of solid-liquid separation; working for diverse Industries like WTP, ETP, STP, Municipal/Industrial Water & Waste Water Treatment, Paper & Pulp, Mineral Processing & Ore Beneficiation and Milk of Lime Plants.

The company has In-house Design, Testing, Pilot Facilities for Establishing its designs & continues to deploy latest Analysis/Design tools for Process Equipment Design. Combined with In-house Manufacturing Capacity with over 44000 Sq.Ft. Working area with 8 EOT Cranes facilitates working of about 100+ team turning out more than 1150 tons of steel per annum.

Strategically located facilities in & around Mumbai our office & manufacturing facilities are easily accessible for representatives, heavy vehicles & port facilities. We at INDOFAB are glad to retain more than 75% of our repeat clients due to our efficient after sales spares & services for decades together.

Few of our Esteemed Clients / Consultants we work for



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