

Estd.: 1991



# **M.D. engineering company**

**(Engineer, Fabricator & Erector)**

AN IBR Certified Company  
An ISO 9001:2008



Pharmaceutical  
&  
Bulk Drugs

Pesticides  
&  
Insecticides

Dyes  
&  
Chemicals

Petrochemicals  
&  
Refineries

Dairies  
&  
Food Industries

Breweries  
&  
Distilleries

Sugar  
& Kattha

We are also manufacturing MS Shuttering, Foot Over Bridge  
and Heavy Structural Fabrication for Rail, Metro Rail, Road Projects and  
Building / Mall Construction etc.

Visit us at : [www.mdengineering.in](http://www.mdengineering.in)



## ABOUT US

For the last 25 years, **M.D. engineering company** has been one of the leading **manufacturers and exporters** of highly efficient **engineering and industrial plant & machinery equipments**. An **ISO 9001:2008** and An **IBR certified** company is a brainchild of a visionary entrepreneur **Mr. M.K Dewan**. Under his able guidance, the company has got a tremendous growth in its field.

With a perfect blend of qualified engineers and modern machines, we offer an innovative range of engineering goods such as **Reaction Vessel, Mixing Vessel, Condenser, Ribbon Blender, Vacuum Tray Dryer, Screw Conveyer, Storage Tanks** and **other equipments** for various sectors. Our client centric approach and the continuous quest for world-class quality have enabled us to attain and sustain leadership in all our major lines of business. We have grown to be one of the largest diversified **Engineer, Fabricator** and **Erector** based in India. Our hard determination towards quality, product innovation coupled with a highly motivated team of dynamic engineers has helped us carve a special niche for ourselves in today's competitive scenario.

## UNMATCHED QUALITY

All the products are engineered precisely and perfectly at **M.D. engineering company**. We are manufacturing all our equipment as per **Indian & International Fabrication Codes**. We follow harsh & strict quality control measures at all level of our process in order to ensure flawless production. By this, we aim to achieve our **Motto** for '**Best Quality and Timely Delivery**'. Our entire operation is supervised by a team of well-trained professionals that hardly leaves any marginal corner for quality degradation. The finest quality of raw materials is sourced from authentic & reliable sources at the market.

## WELL - TRAINED WORKFORCE

We are well supported by a strong team of technocrats having versatile knowledge in the concerned discipline. Our engineers continuously monitor the emerging trends of the market and prepare the products accordingly. The company organise a regular training session for the employees in order to enhance their technical knowledge as per the changing technological environment.

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## INFRASTRUCTURE

We are well equipped with latest plants and machinery along with technically sound workforce to manufacture premier grade products for our prestigious clients. We possess two state-of-the-art facilities in Haryana (**Unit I:** MIE, Bahadurgarh-1750 sq. yards and **Unit II:** Jasaur Kheri-7400 sq. yards). With our robust infrastructural abilities, we can produce 250 MT. of output in a month.

## LIST OF MACHINERY

Hydra Crane (Cap. 12 MT.)	1
Overhead Crane (Cap. 5 MT.)	4
Overhead Crane (Cap. 2 MT.)	2
Chain Block (Cap. 2 - 10 MT.)	8
Plate Rolling Machine 20 mm. x 3 Mtr.	1
Plate Rolling Machine 16 mm. x 2 Mtr.	2
Plate Rolling Machine 40 mm. x 1.5 Mtr.	1
Plate Rolling Machine 6 mm. x 1.25 Mtr.	2
Radial Drill Machine (Cap. 40-50 mm.)	8
Magnetic Drill Machine (Cap. 28 mm.)	8
Drill Machine (Cap. 25 mm.)	10
Hand Drill Machine (Cap. 6 to 12 mm.)	5
Plate Bending Machine 2.5 Mtr. x 5 mm. thk.	2
Limpet Pipe Bending Machine 2.5 Mtr. x 6 mm.	1
Dish End Bending Press 600 MT. x 2200 wide	2
Pipe/Flat Bending machine	1
Shearing Machine 2.5 mtr. X 6 mm. thk.	3
Shearing Machine 1.5 mtr. x 6 mm. thk.	1
Lathe Machine 12 Ft. long bed	2
Lathe Machine 16 Ft. long bed	2
Lathe Machine 8 Ft. long bed	2
Lathe Machine 6 Ft. long bed	2
Shaper Machine 2 Ft.	2
Milling Machine	2
Iron Master Cutting Machine	4
MIG Machine	8
Argon Sets	10
Rectifiers	35
Welding Transformers	10

Gas Welding Set Co2.	1
Plasma Cutter (Cap. 30 mm. thk.)	1
Plasma Cutter (Cap. 16 mm. thk.)	3
Gas Cutting Sets	25
Pug Cutting Machine	8
Bench Grinder	4
Angle Grinder	32
GQ - 6 Grinder	4
GQ - 4 Grinder	4
Sander Disk Grinder	4
Flexible Shaft Grinder	3
Power-Hexa Machine (Cap. 1.5 Feet)	2
Cutting Saw Machine	4
Palm Sender Machine for Buffing	1
Hydraulic Slotting Machine	2
Jams Screw Hydraulic	2
Jams Screw Manual	4
Piston Type Hydraulic Testing Pump-Motorised	3
Hydraulic Testing Pump-Manual	4

## POWER CAPACITY

Power Connection 90KW	1
Power Connection 75KW	1
Power Connection 70KW	1
DG Set 180KVA	1
DG Set 160KVA	1
DG Set 125KVA	1
DG Set 80KVA	1
DG Set 63KVA	2



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## OUR PRODUCTS

1. JACKETED REACTOR
2. LIMPET VESSEL
3. MIXING VESSEL
4. VEGETABLE KETTLE
5. PRESSURE VESSEL
6. AUTOCLAVE
7. AGITATOR
8. CONDENSER
9. HEAT EXCHANGER
10. DISTILLATION COLUMN
11. EVAPORATOR
12. RIBBON BLENDER
13. DOUBLE CONE BLENDER
14. OCTAGONAL BLENDER
15. TRAY DRYER
16. VACUUM TRAY DRYER
17. ROTARY VACUUM DRYER
18. ROTARY EXTRACTOR
19. NUTSCHE FILTER
20. AGITATED NUTSCHE FILTER
21. CENTRIFUGE
22. FLUID BED DRYER
23. HEATING COIL
24. CARTRIDGE FILTER
25. SCREW CONVEYOR
26. BUCKET ELEVATOR
27. DRUM FEEDER
28. BALL MILL
29. DEAERATOR
30. STORAGE TANK
31. RECEIVER
32. CHIMNEY



JACKETED REACTOR



LIMPET VESSEL



MIXING VESSEL



VEGETABLE KETTLE



PRESSURE VESSEL



AUTOCLAVE



AGITATOR



CONDENSER



HEAT EXCHANGER



DISTILLATION COLUMN



EVAPORATOR



RIBBON BLENDER



DOUBLE CONE BLENDER



OCTAGONAL BLENDER



TRAY DRYER



VACUUM TRAY DRYER



ROTARY VACUUM DRYER



ROTARY EXTRACTOR



NUTSCHE FILTER



AGITATED NUTSCHE FILTER



CENTRIFUGE



FLUID BED DRYER



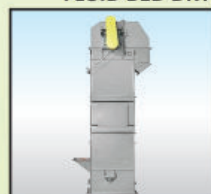
HEATING COIL



CARTRIDGE FILTER



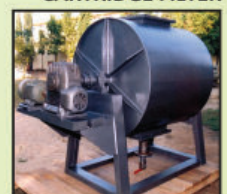
SCREW CONVEYOR



BUCKET ELEVATOR



DRUM FEEDER



BALL MILL



DEAERATOR



STORAGE TANK



RECEIVER



CHIMNEY

WE MANUFACTURE ALL THESE EQUIPMENTS IN S.S., M.S., ALUMINIUM & ALLOY STEEL ETC.

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## OUR VALUED CLIENTS

We are Constantly supplying our products to leading Industrial establishments such as :

- India Glycols Ltd.
- Nectar Lifescience Ltd., Derabassi
- Penam Laboratories, Bhiwadi
- Coral Drugs Ltd., Murthal
- Dalas Biotech Ltd., Bhiwadi
- Hindustan Herbals Ltd., Rohtak
- Morepen Laboratories Ltd., Baddi
- Anuja Healthcare Ltd., Derabassi
- Parabolic Drugs Ltd., Derabassi
- DCM SHRIRAM Ltd., Dauralla
- Passupati Acrylon Ltd., Kashipur
- Bharat Group, Rohtak
- Dhanuka Agritech Ltd., Gurgaon
- HPM INDIA Ltd., Bhiwadi
- Biostadt India Ltd., Katua
- Forace Polymer, Haridwar
- SSK Chemicals Pvt. Ltd., Rohtak
- Bawa Polymers, Bahadurgarh
- Bharat Starch Limited, Yamunanagar
- Haldiram Snacks, Noida
- Bikanerwala Foods, Sonapat
- Bikaji Foods, Bikaner
- DS Group, Noida
- Rakesh Masala Pvt. Ltd., Noida
- Reliance Industries, India
- L&T Power, India
- ISGEC Heavy Engineering Ltd., Noida
- ALSTOM India Ltd., Noida
- Triveni Engineering & Industries, Noida
- BGR Energy System Ltd., Chennai
- AFCONS Infrastructures Ltd., Globally
- Simplex Infrastructure Ltd., India
- ITD Cementation India Ltd., India
- Continental Engineering Corporation, India
- TATA Projects Ltd., India
- Gammon India Ltd., India
- Sadbhav Engineering Ltd., India
- Isolax Corsán India Engineering & Construction Pvt. Ltd., India
- Era Infra Engineering Ltd., India
- Pratibha Engineering Ltd., India
- Vijay Nirman Company Ltd., India



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## OUR SPECIALITIES

### MD Reaction Vessel

Reaction Vessel is a heart of Chemical Industries & this is very important equipment used for Gas – Liquid reactions such as Hydrogenation, Oxidation, Formulation, Chlorination, Carbonation, reaction/ mixing of different type of chemicals in different conditions, pressure/under vacuum, temperature /cooling or at atmospheric conditions. Vessels are used up to 40 kg./cm<sup>2</sup> pressure & -30 °C to + 350 °C temperature.

We are manufacturing wide range of GMP / NON GMP Jacketed/Limpet Reaction Vessel from 100 litres to 50000 litres capacity in Stainless steel grade 304, 304L, 316, 316L, Carbon Steel, Alloy Steel, Mild steel (IS : 2062), Rubber lined & lead bonded with outside M.S. or S.S. Jacket/Limpet for cooling/heating purpose with outside insulation also.



### MD Heat Exchanger & Condenser

We manufacture wide range of GMP /NON GMP Heat Exchanger/Condenser from 1 m<sup>2</sup> to 500 m<sup>2</sup> capacity in Stainless steel grade 304, 304L, 316, 316L, Carbon Steel, Alloy Steel & Mild steel (IS : 2062) etc.

Equipments are extensively used to transfer heat energy from one medium (fluid, liquid and gas) to another medium (fluid, liquid and gas) & to condensate the vapor in liquid shape without mixing them. We design and develop Heat Exchanger/ Condenser as per application and requirement of customer.

### MD Agitator

We manufacture various type of Agitator for mixing/blending purpose like Anchor, Turbine, peddle, Pitch, Propeller in variable speed as per the process requirement . Speed is reduced through reduction gear boxes & variable speed drive. we are using our MD make heavy duty bearing block with two nos. heavy duty bearings.

We manufacture wide range of GMP /NON GMP Agitator for 100 Ltr. to 100000 Ltr. in Stainless steel grade 304, 304L, 316, 316L, Carbon Steel, Alloy Steel & Mild steel (IS : 2062) etc.



### MD Ribbon Blender

We are manufacturing wide range of GMP /NON GMP Ribbon blender from 50 Kg to 5000 Kg capacity in Stainless steel grade 304, 316, M.S (IS 2062) & S.S. Lined in Various type of Ribbon Blender like Ribbon type, V type, Double cone type & Paddle type blender.

It is used for easy mixing of various components. It is a low shear mixer, most commonly used for Solid/Solid, Solid/Liquid Mixing and when high shearing force is not required. Its counter flow helical flight mounted on shaft to ensure gentle mixing. Blades are designed for triple action mixing to suit product end characteristics. It also occupies less head room space for large volume mixing etc.

### MD Rotary Extractor

We manufacture rotary extractor to extract the maximum active ingredient present in different type of dry Herbs/Seed powder/Root/Leaf with using different type of suitable solvent. We manufacturing wide range of GMP /NON GMP rotary extractor from 500 kg to 5000 kg capacity in Stainless steel grade 304, 316 with outside M.S./S.S. Steam Jacket/Limpet coil for heating purpose out side of the vessel. Vessel is rotated horizontally through its both side heavy duty shafts supported with heavy duty bearing blocks.



### MD Deaerator

We manufacture wide range of various sizes of Deaerator with its internal S.S. parts & S.S. spray nozzles as per client requirements & drawings. Deaerator are typically used to eliminate dissolved gases, usually from water. Deaerator remove unwanted gases from a fluid. In applications dealing with liquids the main reason for their use is that these gases can cause corrosion in metal system components; eliminating the gases, therefore, can greatly improve the longevity of various surfaces inside the equipment. In most systems, the gases are removed from boiler feed water, process steam or condensate, and are then sent to a storage tank., We manufacture 1500 mm dia. to 4200 mm dia. with 20 meter length of Deaerator in S.S. 304, Carbon Steel SA 516 gr. 70, Alloy Steel & Mild steel (IS : 2062) etc.

## MANUFACTURING STANDARD

We are manufacturing as per ASME, DIN, TEMA, BIS, IS, API & C-GMP Standard Codes for equipments for high quality job performance.

## FINISHING & PAINTING

All inner & outer Surfaces of Vessel are prepared as per GMP Standard wherever required.

All M.S. Parts are painted with one coat of red oxide primer & two coat of enamel paint after surface preparation.

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## OUR SPECIALITIES

### MD Nutsche Filter

We manufacture wide range of nutsche filter from 20 kg. to 1500 kg. capacity as per GMP /NON GMP standard in S.S. 304, 316 & Mild steel (IS : 2062) etc.

It is designed to separate the liquid solvents from solid materials. It is circular vessel open from top with one perforated plate in middle of vessel. One filter bag provided on top side with solid material & separate the liquid solvent under vacuum from bottom part of vessel through outlet connection.



### MD Agitated Nutsche Filter

We manufacture wide range of Agitated Nutsche Filter from 100 Kg. to 1500 kg. capacity as per GMP /NON GMP in Stainless steel grade 304, 304L, 316, 316L, Carbon Steel, Alloy Steel & Mild steel (IS : 2062) etc.

Agitated Nutsche Filter work to separate the solid from liquids. It is totally enclosed and vertical vessel which is normally operated under pressure or under vacuum. Additionally, the equipment is fitted with a stirrer mechanism which efficiently agitates the slurry during cake washing, smooth and squeezes the cake during filtration and assists in the automatic discharge of the cake. A side discharge arrangement is provided, closing and opening through hydraulic / mechanical system. The agitator shaft rotate & also move vertically.

### MD Tray Dryer

We manufacture wide range of Tray Dryer as per standard of GMP /NON GMP from 12-96 tray capacity in Stainless steel grade 304, 304 L, 316, 316L, M.S. etc. It is a closed insulated rectangular S.S. Container with one or two main gate & Tray trolley. The door can be explosion proof or locked with the help of spring loaded ball latches through suitable pressure. Lips of doors generally have the rubber Gaskets to stop leakages. The trays containing products are placed on moveable trolley. It is generally used for drying powder, granule, fine granule etc. It is work under hot air circulation through electrical heater/steam coils/ thermic fluid coils & high speed fan to contain the maximum moisture from base material with the low temperature for longer time to achieve the desire results.



### MD Vacuum Tray Dryer

We manufacture wide range of Vacuum Tray Dryer as per standard of GMP /NON GMP from 12-96 tray capacity in Stainless steel grade 304, 304 L, 316, 316L & Mild steel (IS : 2062) etc.

Its generally works under vacuum conditions which is used for drying the powder. There are a number of shelves of steam coils inside the dryer on which the trays containing products are placed. The top most shelf is a dummy shelf to ensure proper heating and to block dried powder from escaping into the solvent extraction system. It is close insulated from outside rectangular S.S. chamber with one no. main gate.

### MD Screw Conveyor

We manufacture wide range of Screw conveyors from 1000 kg./hr. to 10000 kg./ hr. capacity of screw conveyor as per standard of GMP /NON GMP in Stainless steel grade 304, 316, Alloy Steel & M.S (IS 2062) etc.

It is used horizontally or at a slight inclination in u shape & round shape as an efficient way to move Powder & semi-solid materials. These can have a greater pitch spacing, resulting in a higher capacity without an increase in rotation speed. They usually consist of a trough containing either a spiral coiled around a shaft, driven at one end and held at the other, or a Shaft less Spiral, driven at one end and free at the other. Screw Conveyors can be operated with the flow of material inclined upward. When space allows, this is a very economical method of elevating and conveying.



### MD Bucket Elevator

We manufacture wide range of Bucket Elevator from 500 kg./hr. to 10000 kg./ hr. capacity as per standard of GMP /NON GMP in Stainless steel grade 304, 316, Alloy steel & M.S (IS 2062) etc.

Our high-power bucket/belt Elevator with M.S., S.S. or Food grade plastic buckets provide an ideal solution when it comes to the vertical transportation & also shifting the material in horizontal position on different station of finely powdered and granular products up to a grain size of 20mm.

## INTERNAL INSPECTION & DOCUMENTATION SYSTEM

Equipment will be internal inspected by our Q.C engineer with complete internal record of inspection & Quality Inspection documentation.

### TESTING

Equipment is tested on running condition for performance, vibration & leak test on desired pressure after completion of fabrication work.

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**MANUFACTURER OF PLANT & MACHINERIES FOR :**

Pharmaceutical/Bulk Drugs, Pesticides, Insecticides, Dyes and Chemicals, Petrochemicals, Refineries, Dairies and Food Industries, Breweries and Distilleries, Sugar, Kattha, Polyester Resin, Part of Heavy Boiler Power Projects, Water Treatment Plants etc. in S.S., M.S., Alloy Steel, G.I., Aluminium etc. We are also manufacturing lined vessels like SS lining, Rubber lining, FRP lining and Lead Bonding etc.

**OUR SPECIALITIES IN :**

Reaction Vessel, Condenser, Heat Exchanger, Mixing Vessel, Limpet Vessel, Pressure Vessel, Vegetable Kettle, Agitator, Auto Clave, Rotary Extractor, Distillation Column, Evaporator, Nutsche Filter, Agitated Nutsche Filter, Tray Dryer, Vacuum Tray Dryer, Rotary Vacuum Dryer, Ball Mill, Deaerator, Cone Blender, Ribbon Blender, Screw Conveyor, Roller Conveyor, Bucket Elevator, Drum Feeder, Storage Tank & Chimney etc.

**OUR SIDE LINE STRUCTURAL FABRICATION AND SHUTTERING WORK:**

We are manufacturing Foot Over Bridge, Heavy Structural Fabrication, Shuttering for Pier, Pier Caps, Portal Beam, Long Line Bed, I Beam, Box Girder, U Girder, Cantilever Equipment, Scaffolding, Water Box, Drains Spouts, Mechanical Jacks and other Machined items in M.S., S.S., Alloy Steel and Galvanized Steel etc.



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