



Quality Engineering Products



Steelcons Engineers Pvt. Ltd.

MANUFACTURES OF

High Pressure Vessels | Heat Exchangers | Columns
Reactors | Special Machines | Pharmaceutical Equipments

ABOUT OURSELVES

Steelcons Engineering Pvt. Ltd. was founded in the year 1998 as a subsidiary company of Quality Engineering Products who were in the manufacturing field of Engg. Goods for more than 25 years. Steelcons Engg. Pvt. Ltd. main motive to accelerate growth featuring sophisticated manufacturing facilities to build Pressure Vessels, Heat Exchangers, Columns, Reactors & other allied products related to Oil Refineries, Fertilizers, Petrochemicals & Pharmaceutical industries. Our sincere & honest approach to business has given us a promising lead ever since we entered into this Venture & continue to strive hard to maintain our presence with an objective to ensuring lasting customer satisfaction.

MAJOR CLIENT LIST

STEELCONS ENGINEERS PVT. LTD.

Toyo Engg. India Ltd.
Desmet Chemfood Engg. P. Ltd.
Desmet Exports Pvt. Ltd.
NOCIL
Hikel Ltd.
Pidilite Industries Ltd.
Gharda Chemicals Ltd.
Schenectady Herdillia Ltd.
Sandoz Ltd.
Bayer India Ltd.
Mukund Ltd.
Novartis Enterprises Ltd.
Steel Corporation Gujarat

QUALITY ENGINEERING PRODUCTS

Toyo Engg. India Ltd.
Cairn Engg. PTY Ltd.
Numaligarh Refinery Ltd.
Chemplast Sanmar Ltd.
Hyundai OHI Construction
Pidilite Industries Ltd.
Bayer India Ltd.
NOCIL
The Kerala Minerals & Metals Ltd.
Alkyl Amines Chemicals Ltd.
Sulzer Pump USA
Cadbury India Ltd.
United Phosphorous Ltd.
Godrej & Boyee Mfg. CO. Ltd.

REFERENCES / THIRD PARTY INSPECTION AGENCIES

Lloyds Register of Shipping (IRS)
Engineers India Ltd. (Ell)
Jacobs H & G (J H & G)
Bureau Veritas Industrial Services (BVIS)
American Bureau of Shipping (ABS)
Indian Register of Shipping (IRS)
Project Development India Ltd. (PDII)
Kverner Powergas India Ltd. (KPG)
Quest Inspection Services Pvt. Ltd., (QISPI)
Signate Engineers Pvt. Ltd. (SEPI)
Chempro Inspection Services Pvt. Ltd.

COMPANY PROFILE Unit - 1

Name of the Company	:	M/s. Quality Engineering Products.
Address	:	Plot No. A-193 Road No. 16 A , Wagale Industrial Estate Mumbai - 400 604
Company in Existence	:	From Year Dec 1981
Status of the Company	:	Partnership Firm
No. Of Partners	:	Two
Name of the Partners	:	1. Mr. K.A Koshy 2. Mrs. Leela Koshy
Nature of Work Executed	:	Design, manufacturing and supply of fabricated equipments.
Jobs in flow Sources	:	Engineering Consultants, Refineries, Petrochemicals, Fertilizers, Process Industries, Pharmaceuticals Industries.
Facilities Available for Manufacture of Engg. Goods	:	High Pressure Vessels, Reactors, Special Machineries, Columns, Heat Exchangers, etc.
Materials Handled	:	CS/ SS all grades
Yearly Turnover Capacity	:	Rs. 10 to 15 Crores
Turnover for 2008-09 F.Y.	:	Rs. 10.00 Crores

COMPANY PROFILE Unit -2

Name of the Company	:	M/s. Steelcons Engineers Pvt. Ltd.
Address	:	R-215, T. T. C. Industrial Estate, Rabale, Navi Mumbai – 400 705
Company in Existence	:	From Year 1999-2000
Status of the Company	:	Private Limited
No. Of Directors	:	Two
Name of the Directors	:	1. Mrs. Leela Koshy 2. Mr. Belson Koshy
Associate Director	:	Mr. K. A. Koshy
Nature of Work Executed	:	Design, manufacturing and supply of fabricated equipments.
Jobs in flow Sources	:	Engineering Consultants, Refineries, Petrochemicals, Fertilizers, Process Industries, Pharmaceuticals Industries.
Facilities Available for Manufacture of Engg. Goods	:	High Pressure Vessels, Reactors, Special Machineries, Columns, Heat Exchangers, etc.
Materials Handled	:	CS/ SS all grades
Yearly Turnover Capacity	:	Rs. 10 to 15 Crores
Turnover for 2008-09 F.Y.	:	Rs. 6.93 Crores

Profile

Catering to the industry requirements of precision engineered process equipment, allied products and fabrication services, we “Quality Engineering Products” & “Steelcons Engineers Pvt Ltd” offer to our clients a wide range of industrial products like Process vessels, Reactors Storage vessels, Special Machineries, Column, Heat Exchanger, industrial chimney, venturi tubes, heat exchanger, decanter & chiller for ethanol plants, cyclone, agitator tanks, mobile and static equipments under explosive rules and many more. The use of superior engineering techniques and modern technology in its construction allows us to successfully cater to the processing and other requirements of refineries, oil process plants, petrochemical plants, chemical plants, distilleries & other allied activities.

Our Quality Engineering Products was established in the year 1981 & Steelcons Engineers Pvt. Ltd on 1999 by professionally qualified engineers and technicians situated at Mumbai, Thane & Navi Mumbai.

Well connected with both rail & road, we have with us facilities of well developed fabrication floor on an area of 11000 Sq. ft. & 25000 Sq. ft machine shop along with modern machine shop and other necessary equipment needed for meeting the production requirements. Further our extensive industry experience enables us to have in depth understanding of the involved processes, which in turn helps us to achieve and deliver accurate results that meets the specific work needs of our clients.

Our Product Range

Our extensive industry experience and effective use of modern machinery equipment enables us to successfully meet complete engineering product and service requirements of our clients. The range of products and services offered by us include Process vessels, Reactors Storage vessel, Special Machineries, Column, Heat exchanger, decanter for ethanol plants, chiller for ethanol plants, cyclone venturi, plate rolling m/c, bed type screw conveyor, agitator tank, mobile and static equipment under explosive rules, alcohol scrubber, fermentation tank and many more.

Customized Products

Our modern machining facilities and the collective expertise of our workforce assists us in meeting the customized product and services requirements of our clients. Their in depth understanding of our engineers and associated workforce of the involved processes further helps us to manufacture and provide precision engineering services as per the given geometry.

Our Services

The wide range of services offered by us include:

- Designing and manufacturing of process vessels, Reactors, agitator tank, column, blender, storage vessels in carbon steel, all types of stainless steels and others metals like Aluminium, copper, Titanium, Monel, Inconel and Hastalloy.
- Designing and manufacturing of tubular heat exchanger, venturiers as per ASME CODE, ISO-5167 & TEMA, in all material.
- Fabrication and erection of all kinds of MS tanks.
- Fabrication of all types of chimneys and ducts.
- Pipe Line - Fabrication and installation.
- Sigma mixer in various metals.

Our Strengths

The attributes that add on to our strength are:

Our capability of designing and developing standard and customized products assists clients in further improving their processes and bringing a reduction in the involved production costs. Team of industry experts.

- Involvement of leading edge technologies which assists us in bringing further improvements in our range of engineering services and products.

Our predominance consists in following key points:

- We are familiar with ASME code and other international prevailing standard.
- Rich experience for fabrication process of different material.
- Better capability to communicate with clients in technology and language.
- Flexible cooperation manner, we do detailed designing and fabrication based on clients basic designing or manufactures the equipment only as per the drawings of the clients.

Quality Features

Our company gives top priority to the quality aspect of our products and fabrication services. The services of experienced quality control experts helps us maintain stringent quality checks at different stages of production processes. This comprehensive inspection and analysis done by our team ensures superior quality in our products that match with those of international standards. Further it also assures our clients of receiving superior quality of engineering products that meet their exact requirements

Control over the involved processes, in turn helping us in providing maximum satisfaction to our clients. Some of the machinery equipment that assists us in having a smoother work process include

Quality Engineering Products & Steelcons Engineers Pvt Ltd

Unit -1

1. FACTORY DETAILS

Total area	: 11,000 Sq. ft.
Built up area	: 8,000 Sq. ft.
Addl. covered area	: 1,000 Sq. ft.
Power connection	: 90 H P

2. MACHINERY AVAILABLE

Welding Rectifiers, 450 Amps	: 10 Nos.
Grinders	: 20 Nos.
Bench Grinder	: 1 No.
Radial Drilling machine	
a. 2" Capacity	: 1 No.
b. 1" Magnetic base	: 1 No.
c. Pillar drilling - 1 1/4" Capacity	: 1 No.
d. Pillar drilling - 3/4" Capacity	: 1 No.
e. Portable drilling machine	: 1 No.
Lathe - 8 feet	: 1 No.
Lathe - 24 feet	: 1 No.
Stationary	: 3 Nos.
Portable	: 5 Nos.
Radiographic viewer	: 1 No.
Cutting set	: 4 Nos.
Pug cutting machine	: 2 Nos.
Profile cutting machine	: 1 No.
Air-plasma cutting machine	: 1 Unit
Hydraulic testing pump, 1000/10,000 PSI	: 2 Nos.
Welding positioners	: 30 Nos.
Plate bending machine, 40 mm CAP. 3 M Wide	: 1 No.
19 mm CAP. 2.3 M Wide	: 1 No.
Tig Welding facility	: 4 Units
MIG Welding set 400 Amps	: 1 Unit
Cranes -	
a. 10 Tonnes HOT	: 2 Nos.
b. 5 Tonnes HOT	: 2 Nos.
c. 10 Tonnes EOT	: 2 Nos.
Hydraulic Press Cap. 300 T	: 1 No.
Electronic Torque control unit (for tube expansion)	: 1 No.
Hardness tester (Poldi)	: 1 No.
Rockwell Hardness Testing Machine	: 1 No.
Hacksaw machine 10" capacity	: 1 No.
Air Compressor - 7 Kg/cm ²	: 1 No.
Minarc 140 AMP -Single	
Phase(Welding Machine)	: 1 No.

Unit -2

1. FACTORY DETAILS:

Total area	: 25,000 Sq. ft.
Office Building area	: 2,000 Sq. ft.
Work Shop Area	: 11,000 Sq. ft.
Yard Area approx.	: 12,000 Sq. ft.
Power connection	: 120 HP

LIST OF MACHINERY

1. Welding Rectifiers, 450 Amps	: 8 Nos.
2. Welding Transformers, 450 Amps	: 2 Nos.
3. Grinders	: 20 Nos.
4. Bench Grinder	: 2 Nos.
5. Radial Drilling Machine :-	
a. 1 1/2" Capacity	: 1 No.
b. 1" Magnetic base	: 2 Nos.
c. Pillar Drilling - 1" Capacity	: 1 No.
d. Hand Drilling Machine	: 3 Nos.
6. Lathe Machines	
a. 27' Bed	: 1 No.
b. 12' Bed	: 1 No.
c. 4' Bed	: 1 No.
7. Electrodes Baking oven	
a. Stationary	: 3 Nos.
b. Portable	: 6 Nos.
8. Radiographic Viewer	: 1 No.
9. Gas Cutting Set (Manual)	: 4 Nos.
10. Pug Cutting Machines	: 2 Nos.
11. Plasma Cutting Machine	: 1 No.
12. Hydraulic Testing Pump (500/10000 PSI)	: 2 Nos.
13. Welding Positioners	: 16 Nos.
14. Plate Bending Machine, 25mm CAP. 2.5M Wide	: 1 No.
40mm Cap . 3M Wide	: 1No.
15. Plate Bending Machine, 10mm CAP. 1.5 M Wide	: 1 No.
16. Tig Welding Facility	: 5 Units
17. MIG Welding set 400 Amps	: 2 Units
18. H.O.T. Crane	
a. 5 Tones	: 1 No.
b. 10 Tones	: 1 No.
19. E.O.T Crane - 10 Tones	: 1 No.
20. E.O. T. Crane - 15 Tones	: 2 Nos.
21. Screw Jack (20 ton)	: 2 Nos.
22. Hydraulic Jack	: 2 Nos.
23. Hydraulic Press (150 tones)	: 1 No.
24. Hydraulic Press (600 Tones)	: 1 No.
25. Air Compressor - 5 Kg/Cm ²	: 1 No.
26. Air Compressor - 10 Kg/Cm ²	: 1 No.
27. SAW Equipment	: 1 No
23. Hydraulic Press (150 ton)	: 1 No.
24. Hydraulic Press (600 Tones) under installation	: 1 No.
25. Air Compressor - 5 Kg/Cm ²	: 1 No.
26. Air Compressor - 10 Kg/Cm ²	: 1 No.
27. SAW Equipment under installation	: 1 No

Clients

The expertise of our professionals and our facilities assist us in offering to our clients a wide range of quality products and fabrication services that meet the varied demands of the industry. Further our well chalked out customer oriented approach has also assisted us in making innumerable clients in the global markets. Some of the reputed clients from the domestic sector who are associated with us include:

1. M/s. National Organic Chemicals India Ltd (NOCIL)
2. M/s. Bayer (India) Ltd.
3. M/s. Herdillia Chemicals Ltd.
4. M/s. Bharat Pumps and Compressors Ltd.
5. M/s. Alkyl Amines Chemicals Ltd.
6. M/s. V.K. Pump Industries Pvt. Ltd.
7. M/s. Gharda Chemicals Ltd.
8. M/s. The Kerala Minerals & Metals Ltd.
9. M/s. Synthetics and Chemicals Ltd.
10. M/s. Indomang Steel Technology Pvt. Ltd.
11. M/s. Desmet Chemfood Engineering Pvt. Ltd.
12. M/s. Desmet Exports Pvt. Ltd.
13. M/s. Sudarshan Chemical Industries Ltd.
14. M/s. Sulzer Pumps (India) Ltd.
15. M/s. Abhideep Chemicals Ltd.
16. M/s. Godrej & Boyee Mfg. Co. Ltd.
17. M/s. Maharashtra Organo Chemicals Ltd.
18. M/s. Hyundai-OHI Construction.
19. M/s. Mangalore Refiner
20. M/s. Supreme Petrochemicals Ltd;
21. M/s. Eurrestra Industries Ltd.
22. M/s. Pidilite Industries Ltd.
23. M/s. Chemplast Sanmar Ltd.
24. M/s. Cabot Sanmar Ltd.
25. M/s. Caprihans India Ltd.
26. M/s. Vinyl Chemicals Ltd.
27. M/s. ASB International Pvt. Ltd.
28. M/s. Traxit Engineers Pvt. Ltd.
29. M/s. United Phosphorous Ltd.
30. M/s. PEC Calves Pvt. Ltd.
31. M/s. Gujarat Insecticides.
32. M/s. Kalva Chemicals
33. M/s. Unitherm Engineers Limited
34. M/s. Arch Commerce Ltd.
35. M/s. Nicholas Piramal India Limited.
36. M/s. Cadbury India Ltd.
37. M/s. Toyo Engineering India Ltd.
38. M/s. National Titanium Dioxide Co. Ltd. (CRISTAL), Saudi Arabia
39. M/s. TCI Sanmar Chemicals LLC, Egypt
40. M/s. Sulzer Pumps, USA

41. M/s. Eagle Electromechanical Co. LLC, Dubai, UAE
42. M/s. Dottech Engineers
43. M/s. Cairn Energy India Pty. Ltd.
44. M/s. Lanxess India Pvt. Ltd.
45. M/s. Al Hizaj Mechanical Equipments Co. LLC, Dubai, UAE
46. M/s. S V Tanks & Vessels Ltd

Third Party Inspection Agencies

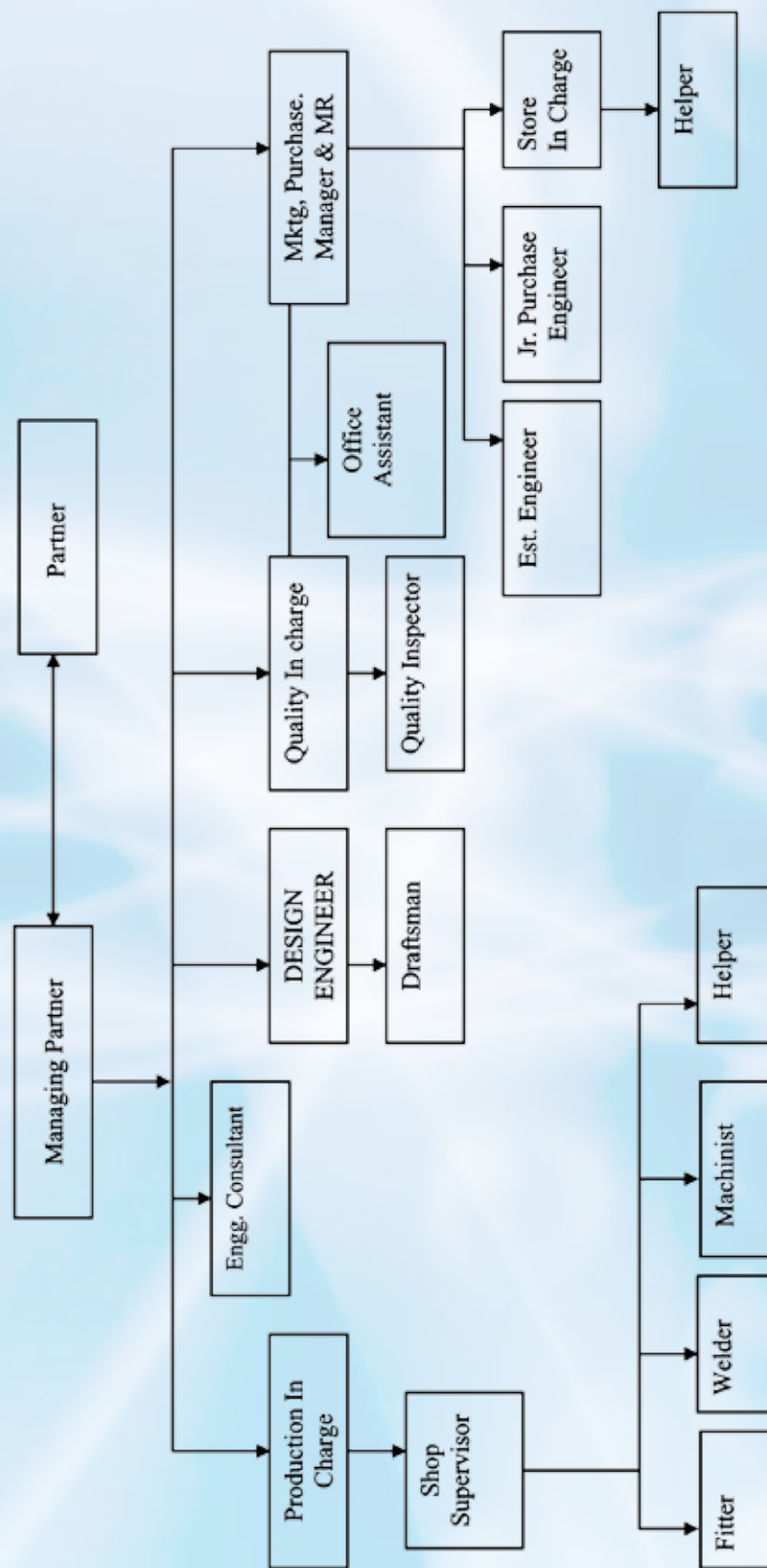
1. Lloyds Register of Shipping (LRS)
2. Engineers India Ltd. (EIL)
3. Jacobs H&G. (J H & G)
4. UDHE India Ltd. (UIL)
5. Bureau Veritas Industrial Services (BVIS)
6. American Bureau of Shipping (ABS)
7. Indian Register of Shipping (IRS)
8. Babha Atomic Research Center (BARC)
9. Bharat Heavy Electricals Ltd. (BHEL)
10. Project Development India Ltd. (PDIL)
11. Kverner Powergas India Ltd. (KPG)
12. Development Consultants Ltd. (DCL)
13. Dalal Consultants & Engineers Ltd., (DCEL)
14. I.C.B Ltd
15. MECON
16. Quest Inspection Services Pvt. Ltd., (QISPL)
17. Signate Engineers Pvt. Ltd. (SEPL)
18. Safess Quality Management Pvt. Ltd., (SQMPL)
19. Chempro Inspection Services Pvt.Ltd.
20. T.U.V. Inspection Services
21. R. J. Associates and Engineers Ltd.

By making the effective use of available technology, we also ensure that our products & services comply to international standards of quality, durability, efficiency and longer life standards.

QUALITY ENGINEERING PRODUCTS



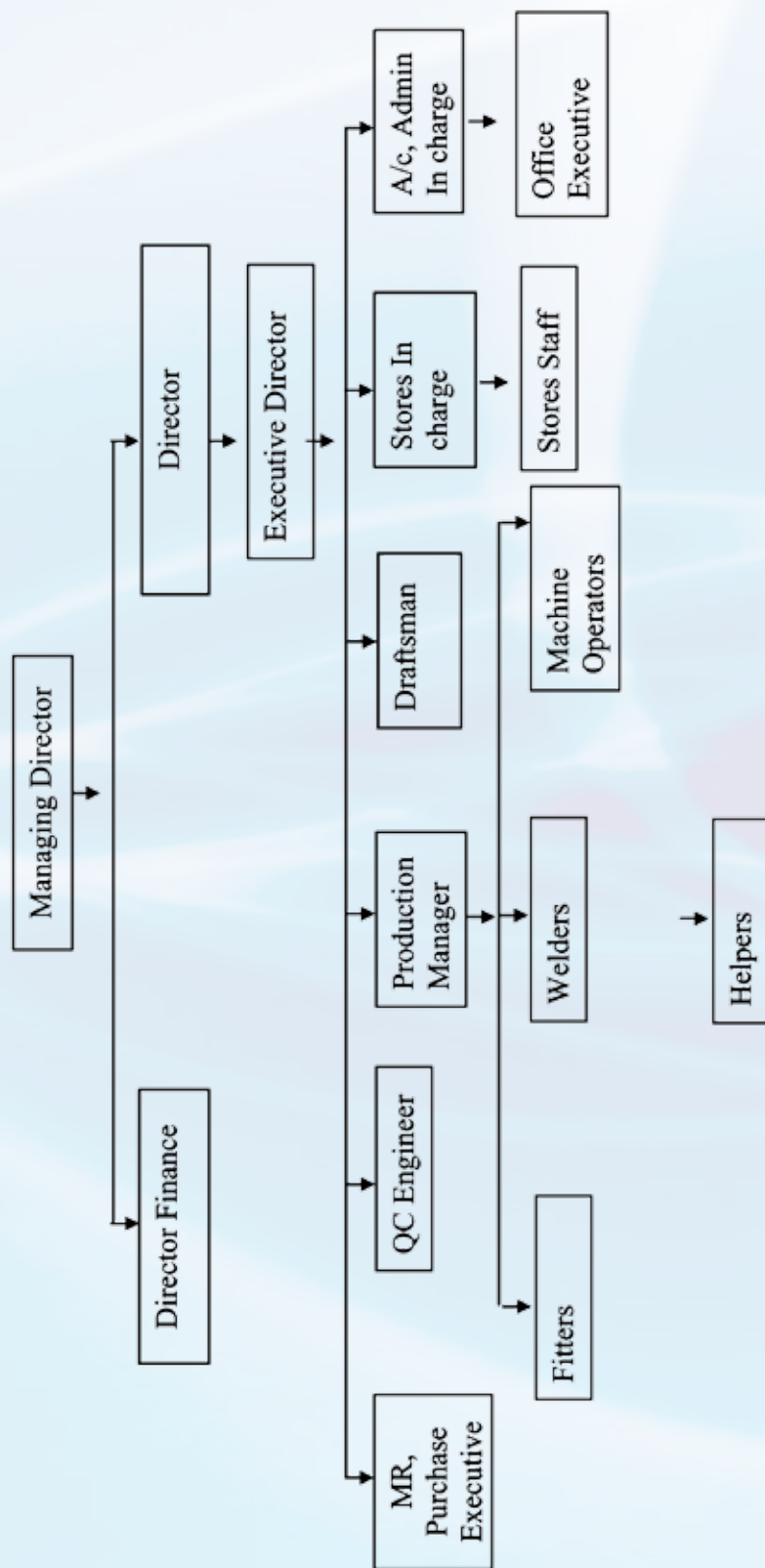
ORGANISATION CHART



STEELCONS ENGINEERS PVT. LTD.



ORGANISATION CHART



Heat Exchangers

We bring high precision heat exchangers that are used to transfer heat from one medium to another. These heat exchangers are highly efficient in recovery of heat without an accompanying phase change. Be it fluids, gases, steam or vapors, these heat exchangers are effective in carrying out the heat recovery.

The above products can be made by different material such as special material such as Monel, Inconel, Incoloy, Hastelloy etc., stainless steel (duplex stainless etc.) common stainless (304, 304L, 316, 316L, etc.) and their cladding steels, carbon steel and other alloys with lead cladding etc.). At the same time, qualified welder, ripe process technology and advanced facility is a basic condition to guarantee the requirement in according with the clients.

- These heat exchangers find a very wide application in industries like:
- Chemical industries like petrochemical processing and petroleum refining.
- Food industry for pasteurization of milk and canning of processed foods.
- In nuclear reaction systems.
- In electrical industries for generation of steam for production of power and electricity.
- In cryogenics for low temperature separation of gases.
- In air crafts and space vehicles.
- We offer various types of heat exchangers like:
- Shell and tube heat exchanger that consists of a series of round/ finned tubes, through which one of the fluids runs and the second fluid runs over the round/ finned tubes to be heated or cooled.
- Plate heat exchanger that is more advanced and more effective than the shell and tube heat exchanger. These are used in HVAC applications and refrigeration, and differ in the types of plates and the configurations of those plates.
- Regenerative heat exchanger that is used to warm the fluids to be used in the process and the same type of fluid is used either side of the heat exchanger.
- Dynamic heat exchangers that are commonly used for heating or cooling of high viscosity products, crystallization processes, evaporation and other high fouling applications.
- Family of Shell & Tube Heat Exchangers:
- Condensers
- Reboiler
- Pre heater
- After Heater
- Vent Condenser

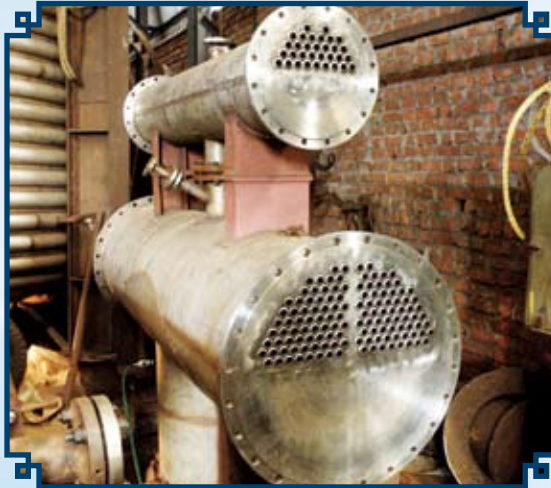
Distillation Column

We manufacture distillation columns that are designed to achieve highly effective distillation process.

These distillation columns are suitable for a variety of industries and are of two types:

- Batch columns where the feed to the column is provided batch wise and it is only after the completion of the first batch, second batch is introduced.
- Continuous columns where a continuous feed stream is provided to the distillation column and high outputs are achieved.

Further, we provide distillation columns on the basis of the number of product streams that they possess. These include columns that have more than two product streams. These columns are also effective in carrying out the extractive distillation and azeotropic distillation. These possess trays and packs to bring out an enhanced distillation.



Heat Exchanger



Stacked Heat Exchangers



Heat Exchanger



Heavy Ends Column Condenser (Heat Exchanger)
Client : Trust Chemical Industries LLC (Egypt)



Heat Exchanger
Client: Cairn Energy India Pty Ltd



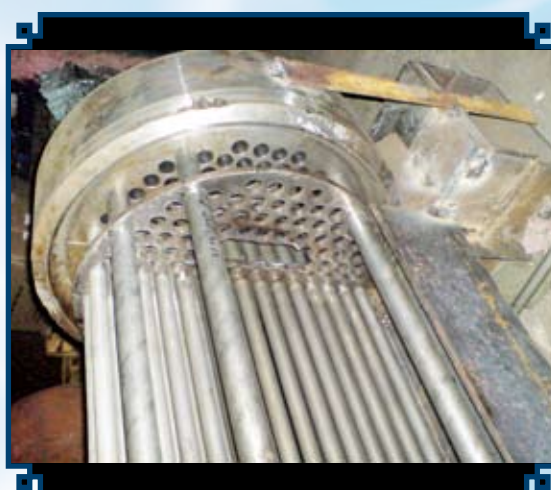
Chiller



High Boil Column Reboiler (Heat Exchanger)
Client : Chemplast Sanmar Ltd



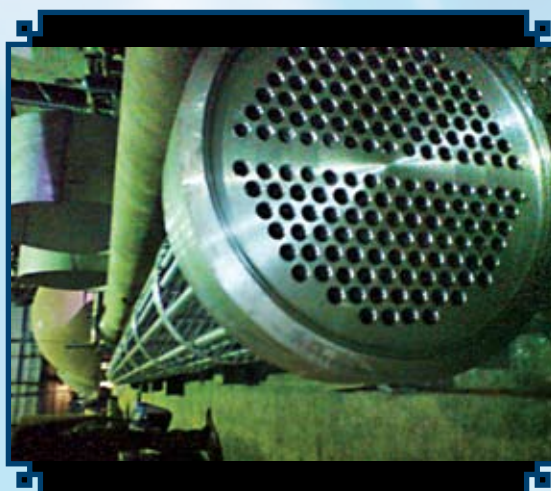
'U' Bundle Exchanger
under assembly



Heat Exchanger under assembly



Heat Exchanger Tubesheet



Heat Exchanger Bundle Assembly

Process Vessels

We design and manufacture process vessels for many of the process industries. Applications include pressurization, processing and storage of various liquids and gases. Some units are jacketed for heating or maintaining consistent and uniform temperature of the contents.

Pressure Vessels can be either vertical with leg or skirt supports or horizontal with saddle supports to suit the site location requirements. Vessels are fabricated from carbon steel, stainless steel and other alloy steels.

Designed, manufactured, inspected in accordance with applicable codes.

Process Vessel

We also manufacture custom designed process vessels for liquid oral formulations, intravenous fluid line, injectables and other chemical products.

We design and manufacture wide range of equipments for this industry.

Features:

- Magnetically coupled agitated vessels for vaccines.
- Blending/mixing vessels for liquid oral, IV fluid, injectables and other liquid applications.
- Storage tanks for water for injection and purified water storage systems.
- Pressure vessel for various applications.
- GMP reactors for crystallization, blending, heat transfer application with scraper with agitator, anchor agitator, custom built agitation solutions.
- Sterilizers for intravenous system.
- Jacketed Process Vessel
- Jacket closure Ring Welding work is performed by using high grade filler rods to with stand closure ring tension. Inner shell of jacket in between inner shell and outer jacket to intensity main vessel and to provide uniform circulation and minimize stagnation of heating or cooling medium.

Welding work is performed by Argon Arc process using good characteristic filler rods on all S.S. parts. MS parts welding is performed by D.C. Arc welding process using suitable electrodes. Drive system is specially designed for maintenance free performance.

Application:

Jacket process Vessels of various types such as Limpet Coil, Jacketed body flange or welded type are used in various types of industries like chemical, food, drugs dyes and other industries. We manufacture process vessels with capacity ranging from 100 LTS to 20, 000 LTS in SS/MS.

- Reaction vessels made using the spiral technology are sturdy, temperature resistant and non-corrosive and almost maintenance free. For special purposes frp reaction vessels can also be used. We also provide complete reaction vessel assembly which includes m.s. structure required to hold the vessel, agitator and gear box assembly

Material of Construction: Stainless Steel 304/SS316L quality having MS/SS Jacket or limpet coil for steam heating / cooling.

Reaction Vessel can be provided with different types of agitator like anchor type, propeller type, paddle

type pitched blade turbine type or with high speed homogenizer.

Shaft entry sealed by oil seal, plain or water cooled stuffing box, single or double mechanical seal. High density glasswool insulation & S.S. Cladding can be done on demand

Jacketed Agitator Tank

- Our Process and Mechanical design teams can size the agitation requirements based upon the product specific gravity, viscosity and characteristics. We offer agitators with impellers of propeller, turbine, paddle, helical or anchor type configuration. For some specific high viscosity products such as grease lubricants, adhesives and polymers, double motion agitator arrangements are designed, using paddle-turbine and anchor stirrer designs. Our agitators utilize commercially available components such as motors, couplings, reducers and shaft seals.
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- Designed, engineered and manufactured to individual application specifications including pressure and vacuum condition and for ambient or elevated temperature service.
Fabricated from low and standard temperature carbon steels, 300 & 400 series stainless Steels.

Jacketed and coiled construction available for heating and cooling applications

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- Available with single motion impellers-propeller, turbine, paddle, helical or anchor style or with double motion arrangements utilizing anchor style scraper agitator to clean the vessel wall and assist heat transfer and paddle impeller to increase product movement and achieve desired mixing homogeneity.

Standard Stuffing Box type Packing Gland Shaft Seals with or without water-cooling or Mechanical Seals.

Application Industry:

- Petro-Chemical.
- Polymers.
- Coatings & Adhesives.
- Agricultural & General Chemicals.
- Plastics & Rubber
- Food & Beverage

Storage Tank

- We offer wide range of storage tanks which have domestic as well as industrial usage. They are available in different shapes viz. elliptical, dished, flat or conical head as per the requirements of clients.

Specifications:

- Material: stainless steel of 304, 321, 316L. Cladding plate of austenitic stainless steel & CS
- Temperature: -70 - 350°C
- Pressure: -0.1 - 9.9mpa
- Max. Volume: 100M3
- Equipped with inside coil, outside coil, jacket or U tube

Chemical Process Equipments

- We offer a wide range of process equipment and allied products. We have a complete knowledge and understanding of the evolving market that assists us in understanding the prevalent trends and requirements. We manufacture precision engineered products as per the specifications of clients and strive to give our best to them. Our products include venturi tubes, heat exchangers, pressure vessels, industrial chimney, distillation columns, reactor, agitator tank assembly, crystallizers etc



Pressure Vessel
Client : Supreme Petrochem



Waste Solid cyclone Sump
Client: The National Titanium Dioxide Co.Ltd
(Saudi Arabia)



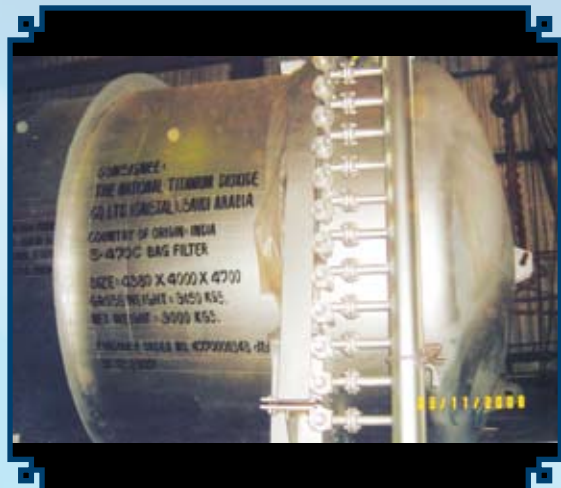
Bag Filter
Client: The National Titanium Dioxide Co.Ltd
(Saudi Arabia)



Horizontal Storage tank
Client: TCI Sanmar Ltd



Pressure Vessel
Client : TCI Sanmar Ltd (Egypt)



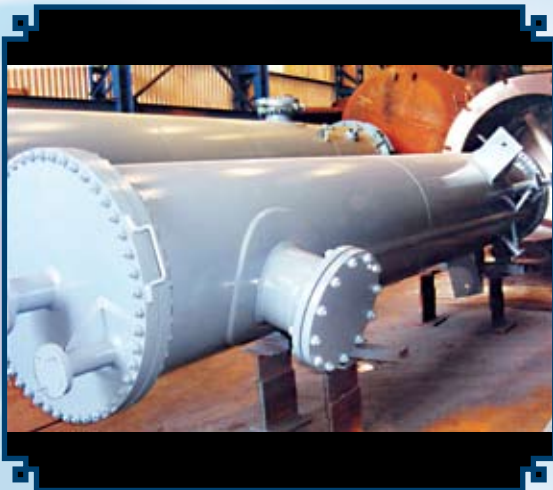
Bag Filter
Client : The National Titanium Dioxide Co.Ltd (Saudi Arabia)



Piggy Vessel
Client: Cairn Energy India Pty Ltd



Skirt with gussets



Pressure Vessel
Client : TCI Sanmar Ltd (Egypt)



Pressure Vessel
Client : TCI Sanmar Ltd (Egypt)



Pressure Vessel
Client : TCI Sanmar Ltd (Egypt)



Pressure Vessel
Client : TCI Sanmar Ltd (Egypt)



Storage Tank
Client : Nocil India Ltd



Shell Half portion
Client: The Kerela Minerals & Metals Ltd



Storage Tank



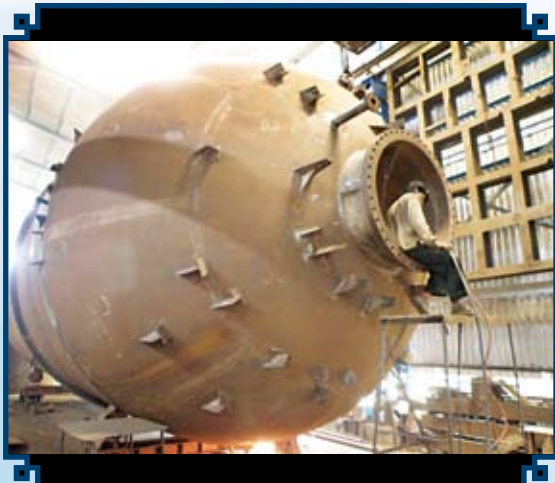
Pressure Vessel
Client : TCI Sanmar Ltd (Egypt)



Pressure vessel under fabrication



Pressure Vessel
Client : TCI Sanmar Ltd (Egypt)



Process Vessel Under Fabrication



Reactor with Coil



32 M3 Tank Acetone
(Underground Tank)
Bayer Crop Science Ltd



Transport



Column



EDC Reactor with mixing nozzle
Client : Chemplast Sanmar Ltd



Reactor



20 M3 Hydrogenation Reactor
Client: Lanxess India Pvt Ltd



Process Vessel



Reactor with Coil
Client: Lanxess India Ltd



Internal Coil
Client : Lanxess India Ltd



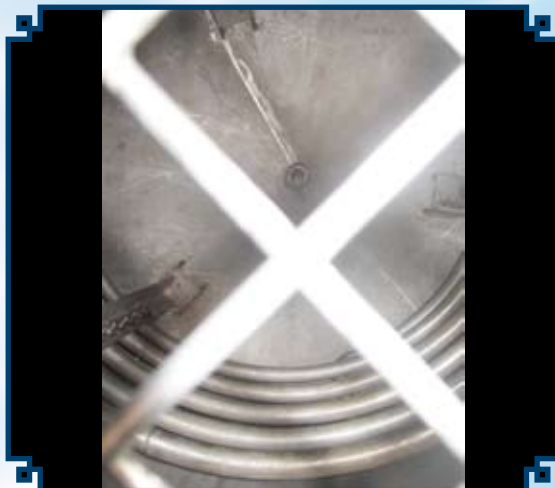
Reactor



Reactor with Internal Coil



Reactor
Client : Bayer Crop Science Ltd



Internal Coil



Internal Coil



Fluidized Bed Reactor
Client : The National Titanium Dioxide Co.Ltd
(Saudi Arabia)



20 M3 Reactor with Limpet Coil
Client : Bayer Crop Science Ltd



Reactor MT-501
Pidilite Industries Pvt. Ltd.



Type of Vessel:
Grease Kettlelient



SIGMA MIXER



Reactor
Client : Bayer Crop Science Ltd



Reactor under transportation

Other Products



Pressure Gauge in
Pressure condition



Insulation being done on steam
Generator



STEAM GENERATOR



Pumps
Clients : Sulzer pumps Houston Inc



Heat Exchanger Transportation



Storage Vessel Transportation



Tanks Transportation



Bottom Skirt



Tanks



Trolley



Fabricating Process



Packing Of Vessel



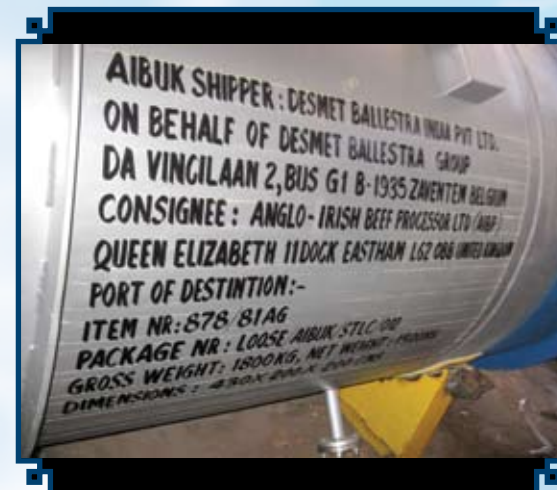
Pressure Vessel Under Fabrication
Client : TCI Sanmar Ltd (Egypt)



Shell Long seam Fitup



Tank



Description written on
vessel for Export



Fabrication Process



Transportation



Column Under Erection



Wooden Packing of Job



Tank



Job under Painting



Transportation



Under testing



Water cooled Laddle roof Arrangement
Client: Indomag Steel Technology



Transportations



Toaster



Pressure Vessel under frbricating
Client : TCI Sanmar Ltd (Egypt)



Vessel with Column at top



Hemispherical Dish Under Assembly

Pharmaceutical Products



Vacuum Tray Dryers

QEP- Vacuum tray Dryer is capable of removing complete water or other solvent from wet powders coming from a filtration unit or centrifuge. It can be used as an effective dryer, fast mixer & blender or homogenizer. It can also be used as a granulator.

APPLICATIONS

The dryer is suitable for raw materials drying & mixing powder or granule of Pharmaceutical Materials, Crystalline, Insecticides, Pesticides, Food industry & heat sensitive products



PLANETARY MIXER

QEP-Planetary Mixer consists of a single blade or double blade with a high speed dispersion blade (Emulsifier/Homogenizer). Intimate & homogeneous mixing of products

is achieved by planetary motion of beaters & centrally located high speed dispersion blade for vacuum jacketed mixer units. The PLM consists of two open beaters moving in planetary motion, scraper blade & centrally located high speed homogenizer run by a separate motor to manufacture ointments, creams, suspensions etc.

APPLICATIONS (For Dry & Dough Mixing)

QEP-Planetary Mixer is an ideal mixer for the products of different viscosities, densities, shapes & proportions. The major use includes the production of latexes, adhesives, personal care & cleaning products, dispersion & micro-dispersion of chemicals & agricultural pesticide formulations. It is suitable for mixing / blending powders as well as thorough mixing of ointments, creams, lotions, toothpastes, resins, slurries, ceramics, colours, pigments, rubber & other compounds etc.



Vibro Sifter

QEP-Vibro Sifter is multi layer screening unit to separate mass composition of solids from solids, liquid from solid, and gradation of materials in accordance with their shapes & sizes. Mostly found useful for the applications in pharmaceutical, Chemical, Food, Drug, Detergent, etc.

Working Principles

QEP- Vibro Energy Separator is a rigid screening device that vibrates about its centre of mass. The central vertical axis being the same, vibration is accomplished by placing eccentric weights on the upper and lower ends of the motor shaft. Adjustment of the quantum and relative position of the top and bottom weights permits control of amplitude and material flow patterns as below.



Multi Mill

A self-contained portable unit, which is used for a wide range of dry & wet Pulverizing, Mixing, Shredding and Chopping etc at a high speed. The unit consists of AISI 304/316 quality hopper, processing blades, suitable

Applications :

The mill can be used widely for wet & dry granulation, pulverization etc. in various type of applications such as Pharmaceuticals, Cosmetics, Chemicals, Dyes, Colours, Food Products, Spices, Detergents, Insecticides, Plastics & Resins, Fertilizers etc.



OCTAGONAL BLENDER

It is revolved end over end, moving the products in & out of the constricted octagonal areas. This causes multiple folding action that ensures a thorough inter-meshing of all the ingredients in the batch. The result is a homogeneous blend regardless of particle size distribution, particle shape or density with a great efficiency.

APPLICATIONS

The unit is used for blending the most delicate & fragile free flow products like powder or granules in 10 to 20 minutes. It is also the best way to mix very heavy & abrasive products the range of products includes colour, plastics, flour, drugs, pharmaceuticals, metal powders, minerals, fibers & many others.



COATING PAN

Salient Features

Pan fabricated from SS sheet of 304/316 AISI quality with adequate mouth opening and depth.

Easy mounting arrangement for change over from Coating Pan to Polishing Pan.

Compact hot air blower with inlet air damping arrangement through filter.

Needs no foundation, can be installed on property pre-levelled floor.

Flameproof construction optional.

TRAY DRYER



Tray Dryer is used for the best drying results in conventional process. It is a doublewalled cabinet with one two doors. The gap between two walls is filled with high-density fiber glass wool insulation material to avoid heat transfer. Doors are provided with gaskets. Stainless steel trays are placed on the movable trolleys.

Salient Features

All stainless steel 304/ 316/ 316L construction for pharmaceutical applications or external mild steel with SS internal contact parts. Electric / Steam/ Thermic fluid heating. Control panel board with process timer. (Circular chart recorder can be provided on demand at extra cost). Sturdy trolleys with castor wheels. Air filter at inlet. (Hepa filter can be provided on demand at extra cost). Easy accessibility of impeller for cleaning. The exhaust duct, blower & air inlet filters can be custom built to keep out of the production area with suitable ducting.

FLUID BED DRYER

Special Features

- Short Drying time
- Sturdy structure
- Uniform Drying at low temperature
- Intrinsically safe Earthing system
- Fan motor unit can be placed in remote areas
- 0.3 micron class 100 Hepa filter
- Minimum handling more Hygeinic

Application

The Fluid Bed Drying technique is ideal for the rapid & even drying of chemical, pharmaceutical and food products. The material may be in granules, power or crystalline form. Normally an initial moisture content upto 20% is ideal but materials with higher initial moisture content can also be dried successfully.

OCTAGONAL BLENDER

It is a very useful machinery for pharmaceutical industry where in gentle blending of dry granules or powder is to be done. it consists of octagon body, rectangular center portion, top and bottom polygonal frustum.

MULTI-MILL

Multimill is a self contained portable unit useful for high speed Granulating, Pulverising, Mixing, Shredding, Chopping etc., a wide range of wet & dry materials without special attachments. As compared to the four common principles of size reduction, this machine utilises the principle of variable force swing hammer blades having both knife and impact edges rotating with a carefully selected screen to control reduction. Flow path of material in vertical rotor machine is streamlined. During comminuting, material entering the chamber travels to the periphery and passes through the screen tangentially and radially avoiding choking and rise in temperature

Special Features

- All contact parts Ss304 / 316 / 316L AISI quality
- Machine rated for continuous operation.
- High output with process uniformity.

- Direction of blade rotation by reversing switch.
- Various combinations of screens / speeds / number of

VIBRO SIFTER

Vibro sifters are circular gyratory screens used to separate mass composition of solids, liquid from solid and for gradation of materials as per particle sizes.

Special Features

- Available in standard and GMP models with contact parts in stainless steel 304 or 316 quality.
- Portable unit with higher output.

PLANETARY MIXER

Planetary Movement of beater (agitator) for intimate mixing a wide variety of materials has been employed with advantage in the industry.

Applications

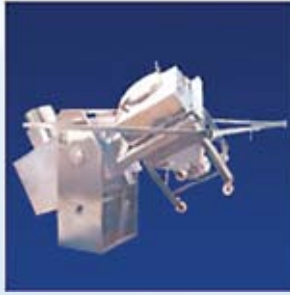
Pharmaceuticals, Powders granules, ointment, gelatine, cosmetic food and confectioneries, soap and detergents, ceramics, pesticide and insecticide formulations, colours and pigments.

Special Features

- The mixing bowl can be easily retracted from the machine for washing, cleaning and transporting mixed materials.
- Machine can be operated on two speeds.
- Jacketed bowls available for heating or cooling the product during mixing are optional.
- Manual lifting arrangement of bowl upto 120 ltr.
- Different designs and shapes of mixing beater available for specific process.
- Bowl provided with conical cover to avoid dusting while mixing.
- Flameproof construction of electrical optional for mixing with inflammable solvents.
- Machine portable and compact in design requires no foundation.



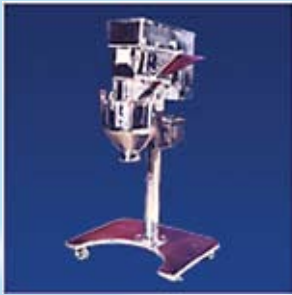
Blender



Contra Blender



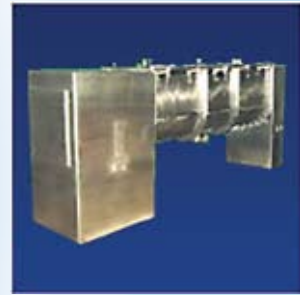
Fluid Bed Dryer



Multi Mill



Octagonal Blender



Ribbon Blender



Rotocone Dryer



Tray Dryer



Vacuum Tray Dryer



Vibro-Sifter



Capsule-Inspection



Planetary Main



Tray Dryer Main



Pressure Vessel



Rapid Mixer Granulator

ISO 9001:2000 CERTIFICATION



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2000

This is to certify that:

Quality Engineering Products
Plot No. A-193, Road No. 16-A
Wagle Industrial Estate
Thane 400 604
Maharashtra
India

Holds Certificate No: **FM 515840**

and operates a Quality Management System which complies with the requirements of ISO 9001:2000 for the following scope:

The design, manufacture and supply of process equipments such as heat exchangers, pressure vessels, columns reactors and allied equipments.

For and on behalf of BSI:


Managing Director India, Venkataram Anabolu

Originally registered: 27/02/2007

Latest issue: 19/07/2007

Expiry date: 26/02/2010



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BSI Management Systems India Private Limited
The Mira Corporate Centre (A-2), Plot 182, Sahakar Nagar, New Delhi 110 085, India
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Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2000

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Steelcons Engineers Pvt. Ltd.
Plot No. R-215, TTC Industrial Area
Rabale
Thane-Belapur Road
Navi Mumbai 400 701, Maharashtra
India

Holds Certificate No: **FM 515883**

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For and on behalf of BSI:


Head Compliance & Risk India, Harmeet Singh

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BSI Management Systems, The Mira Corporate Centre (A-2), Plot 182, Sahakar Nagar, New Delhi 110 085, India
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Quality Engineering Products

Plot No.A-193, Road No.16A,
Wagle Industrial Estate,
Thane (W) - 400 604

Tel No. 022-25821446/0482/4335

Fax No. 022-25822164

E-mail: qualityenggproducts@gmail.com
quality@mtnl.net.in



Steelcons Engineering Products

R-215, T.T.C. INDL. AREA, MIDC,
RABALE, NAVI MUMBAI – 400 701.

PH: 022- 2760 1725

FAX :022- 2769 4367

E-mail: steelcons@gmail.com; sepl@mtnl.net.in