



SS STORAGE TANKS

AGITATOR ASSEMBLIES

CHEMICAL REACTORS

PRESSURE VESSELS

FLARE STACKS

HEAT EXCHANGER

SCREW CONVEYORS



KTST ENGINEERS PVT LTD

WE DESIGN WE MANUFACTURE



ABOUT US

Incepted in 2011 in the holy city of Nashik in the state of Maharashtra, KTST Engineers Pvt Ltd, has adopted an aggressive and innovative approach to penetrate the market and fulfil its aim in providing heavy engineering services to its ever increasing customer base. We aim to provide Quality process equipment for various industrial sectors like food, beverages, distilleries, paint, chemical, pharmaceutical, fertilizer, chemical etc.

We have a team of result oriented professionals and engineers engaged in the process to satisfy the needs of our customers.

Our services are offered in different fields of fabrication and machining to cater diverged needs of our clients.

KTST is a diversified group and provide its services in following fields.

1. Heavy fabrication
2. Machining and tooling
3. Electrical and power consultancy
4. Instrumentation, Flow control and level measurements

MISSION

Our mission is to deliver a quality product and solutions with cost effectiveness

VISION

Our vision is to become a leader in providing products and process solutions for different industrial sectors like food, pharma, chemical, EPC projects, etc



AGITATOR ASSEMBLIES

We provide agitator assemblies along with all necessary components like geared motors, lanterns, mechanical seals, stuffing box, blades, shafts, scrapers, etc as and when required. we offer well designed & engineered in accordance of ASME / IS / API/ BS/ CGMP and other international codes with optimum Agitation solutions to suits the customer

TYPES OF AGITATORS :

- Anchor type
- Paddle type
- Turbine type
- Homogenizer
- Ribbon type

Manufacturing Capabilities:

Power: 0.25 HP to 1000 HP.

Diameter: As per Design Requirements.

Impeller class and types

Axial Flow : Propeller, PBT, Hydrofoil

Radial Flow : FBT, Rushton, Hollow blade turbine

Higher Shear: Cowles, Disk, Bar, pointed Blade

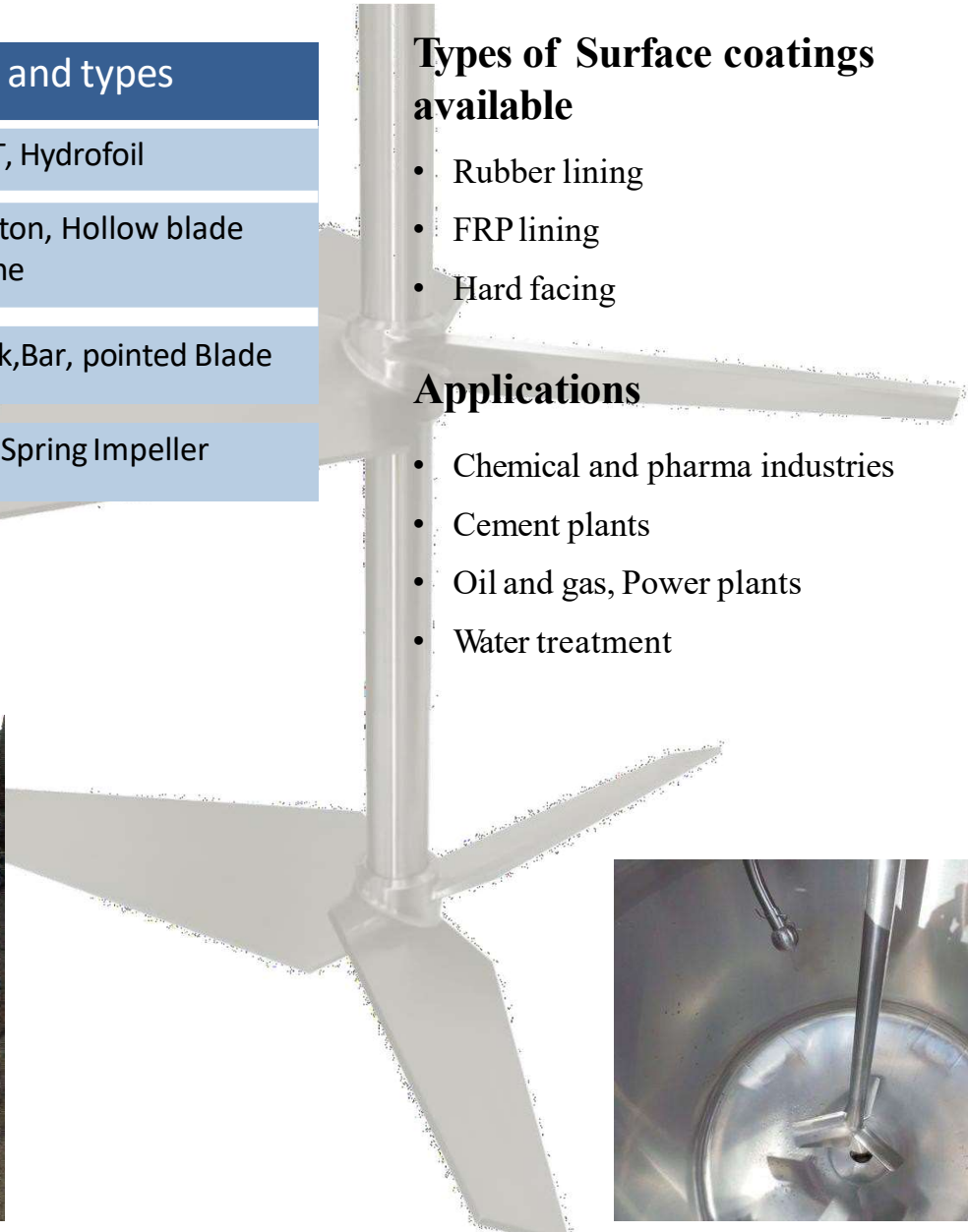
Speciality : Retreat Curve, Spring Impeller

Types of Surface coatings available

- Rubber lining
- FRP lining
- Hard facing

Applications

- Chemical and pharma industries
- Cement plants
- Oil and gas, Power plants
- Water treatment



Depending on the process requirements, we provide varied solutions for agitation of process fluids to obtain desired results. Some of such requirements may be listed below.

Blending Easiest of agitating applications, and axial turbine or hydrofoil impellers are preferred normally. Jet mixing by recirculation with an ordinary pump is equally good at lower cost.

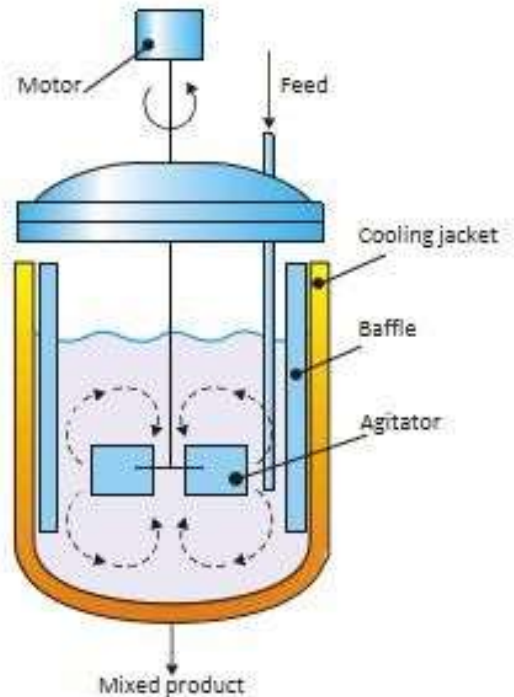
Dispersion refers to mixing of non-miscible liquids or of solids or gases in liquids, into somewhat homogeneous mass whose stability is measured by its life before reasonable separation occurs.

In **Dissolving**, we want provision of high flow rate and low shear past the solid surface. Unless the solid is polymeric or sticky or viscous in nature, it is an easy operation.

Heat Exchange is used to speed up heat transfer by forced convection. Apparently simple but for critical applications. Varied process data is required to obtain optimum process output.

Emulsification is defined as the production of an apparently homogeneous liquid from two or more immiscible liquids. In an emulsion one of the liquids is generally dispersed in the other in the form of small droplets.

Solid suspension is defined as maintaining a slurry of solid particles in a liquid. It usually pertains to systems in which solids would settle to the bottom of the vessel if no agitation were provided.



REACTORS

We manufacture various types of Reactor custom made for a wide range of applications. we offer well designed & engineered in accordance of ASME / IS / API/ BS/ CGMP and other international codes with optimum Agitation solutions to suits the customer

Manufacturing Capabilities:

Capacity: 500 lits to 50,000 lits.

Pressure: Upto 50 kg/cm²

Temperature Range: upto 350 °C

TYPES OF REACTORS:

- **Limpet Reactors.**
- **Double Limpet Reactors.**
- **Jacketed Reactors.**
- **Internal coil Reactors.**



HEAT EXCHANGERS

Shell and Tube heat exchangers are the most common type of heat exchanger used in oil refineries, chemical processes, and is suited for higher pressure applications. We design and manufacture different types of heat exchangers as per requirements under AMSE and TEMA standards.

Manufacturing Capabilities:

We can manufacture Heat exchanger upto 15 mtr of length and diameter upto 2 mtr



TYPES OF HEAT EXCHANGERS :

- One Pass exchangers
- Multi Pass with longitudinal baffles
- Split flow type, Double split flow type
- Divided flow type
- Kettle type
- Re-boiler and Cross-flow type



ZERO LIQUID DISCHARGE (ZLD):



PRESSURE VESSELS AND RECEIVERS

We design and manufacture different types of

Pressure vessels according to ASME design codes to ensure high quality and safety.

The material used is of good quality from reputed suppliers.

Further to ensure a quality product is produced, inspection is carried out at every stage of manufacturing based on ASME standards.

Manufacturing Capabilities:

Length upto 60 mtr and diameter upto 8 mtr
Pressure

STORAGE TANKS

Chemical storage tanks are used to store the raw chemicals, intermediate chemicals or final chemicals.

We offer horizontal as well vertical chemical tanks.



SCREW CONVEYORS:



Manufacturing Capabilities:

Overall Length: 20 Meters

Types:

- i) Horizontal Type.
- ii) Inclined Type.

Casings:

- i) U-Through Type.
- ii) Circular Type.



- Inhouse Design facility with softwares: AutoCAD 2D & 3D, CATIA, Solidworks & PV Lite .
- Design facility for Agitators & Heat Exchangers.
- ASME & API standard for fabrication.
- ASNT level-II Qualified Engineers.
- Qualified welders as per ASME Sec:IX

Total Area- 25,000 sq.ft
 Covered Area - 13,000 sq.ft
 Open Area - 6000 sq.ft
 Office Area - 1500 sq.ft
 Height Under Hook : 8 mtr

METALLURGIES WE HANDLE

Ferrous: Carbon Steels of all grades & Alloy
 Non Ferrous : All types of Stainless steel
 Exotic: Brass and others

BLASTING & PAINTING: SURFACE FINISH & COATING:

- 1) Pickling and Passivation
- 2) Rubber Lining & FRP

TPI Agencies Worked With:

- 1) TUV NORD (I) Pvt Ltd
- 2) TUV SUD (I) Pvt Ltd
- 3) Lloyd's Register Marine and Inspection Services India LLP.
- 4) Bureau Veritas (I) Pvt Ltd
- 5) IR Class Systems & Solutions Pvt Ltd
- 6) Quest (Quality Evaluation And Systems Team Pvt. Ltd.)
- 7) Electromech Engineering Enterprises.

SR NO.	MACHINE	CAPACITY
1	EOT Crane	Upto 20 Ton
2	Rolling Machine	40mm Thick X 2500mm long
3	Lathe machine	Upto 40Ft
4	CNC Cutting of machine	Upto 200mm
5	Radial drill machine	Upto 80mm

SPECIFICATIONS	CAPABILITY
DIAMETERS (mtrs)	7
ROLLING THICKNESS(mm)	40
JOB LENGTH (mtrs)	40
FABRICATED WEIGHT (MT)	60

PICKLING AND PASSIVATION:



BEFORE

AFTER



Stress Relief of Dish-end

We believe quality is not just an act but a habit. Our team seamlessly work together to ensure all necessary standards are followed and a quality product is delivered as per client's requirements. Quality is the best way to reduce cost, Reducing rework reduces cost and thus benefiting customers with cost effective solution. Quality is result of a continuous Efforts. At KTST, quality is given utmost importance. We are **ISO 9001-2015** certified, have approved procedures for welding processes and associated **ASNT Level-III** Personnel and highly skilled **ASNT Level-II** qualified engineers.

NDT Facilities In-House :

- 1. Liquid Penetrant Testing
- 2. Hydro & Pneumatic test.
- 3. Speed Measurement with Tachometer.
- 4. Spark Testing for rubber/FRP lining
- 5. Painting DFT.
- 6. Thickness Measurement by Ultrasonic Thickness Gauge.

NDT Facilities Out-Source :

- 1. Radiographic Testing
- 2. Ultrasonic Testing
- 3. Magnetic Particle Testing
- 4. PMI.
- 5. Helium Leak Test.



Dry Penetration Test



Helium Leak Test



Long Seam Weld



Ultrasonic Test

CLIENTS

We are proud to serve the below mentioned customers and the list is ever increasing :::



CLIENTELE

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