Complete Engineering Solutions...

- Aerospace Industry
- Steel Industry
- Paper Industries

Process Equipments
KERONE is possessing experience of 40 years in engineering excellence.

KERONE is one of the most admired and valuable company for customer satisfaction.

KERONE is pioneer in application and implementation engineering.

KERONE is having immense expertise in manufacturing and implementing various types of heaters and dryers.

KERONE is possessing employee strength of more than 140 experts continuously putting efforts for happy industrial heating solutions.

KERONE has reported annual revenue of $8 to $10 Million, increasing year-on-year.
Our Vision and Mission

**Vision**

- Turn into world leader in providing specialized, top-notch quality and ecological industrial heating, cooling and drying solution across the globe.

- To attain global recognition as best of quality and environment friendly engineering solution company.

**Mission**

- To enhance the value of customer operation through our customer need centric engineering solution.

- We are committed to provide our customers, unique and best in class products in Industrial heating, drying and cooling segment, with strategic tie-up for the technical know-how with renowned leader in the industry specific segment.

- We are company that believes in strong ethics and timely commitment helps to build long term relationship.
Value Propositions

- 40 years of rich experience
- Sound infrastructure
- Adherence to standards
- Timely delivery
- Highly customized product
- Cost effective solutions
- Team of experts delivering quality
- Great after sale support

Kerone
(An Iso 9001-2008 Company)

A CRISIL-NSIC RATED COMPANY
ISO-9001-2008 COMPANY
AFFILIATED TO THE UNIVERSITY OF NOTTINGHAM
MEMBER OF A.M.P.E.R.E.,(EUROPE)

Member of AIMCAL

ASCB(E) Certification for Best practice

IRAQAO Certified for quality

Member of A.M.P.E.R.E. (Europe).

Recognized and Rated by CRISIL

CRISIL Verified

In Association with SVCH-Technologii, Moscow (Russia)
Introduction of Process Equipments

Process Equipments are arrangement of various mechanical equipments required for physical or chemical methods of mechanical and/or thermal treatment or processing of a raw material or product.

Process Equipment is usually designed with a specific process or family of processes in mind and can be customized for a particular facility in some cases.

Process Equipments are used in chemical and materials processing, in facilities like refineries, chemical plants, and wastewater treatment plants, pharmaceutical and other Industrial process engineering applications.
Reactors are vessels designed to contain chemical reactions.

We Design and Manufacture Reactor for:
- Chemical
- Pharmaceutical
- Petrochemical
- All other Processes

Type of Reactors

- CSTR (Continuous Stirred-Tank Reactor)
- Semi-batch reactor
- Batch reactor
- Catalytic reactor
- PFR (Plug Flow Reactor)
Feeders

Feeder guides the chemicals, materials and ingredients into a processing machine and equipment.

We Design and Manufacture Feeder for:

- Pharmaceutical Feeder for feeding Ingridience
- Loss-in-weight Feeder
- High Accuracy Volumetric Feeder for chemical processing
- Multi Stream Feeder

Type of Feeder

<table>
<thead>
<tr>
<th>Continues Feeder</th>
<th>Batch Feeder</th>
<th>Volumetric Feeder</th>
</tr>
</thead>
</table>

Complete Engineering Solutions...
Dryers find application where it's desired to remove/reduce/take out moisture or water contents from any article.

**Type of Industrial Dryers**

- Microwave Dryers
- Radio Frequency Dryers
- Infrared Dryers
- Conventional Dryers
- Spray Drying
- HOT AIR Dryer
- Contact Drying
- Pneumatic/Flash Dryer
- Rotary Dryers
Mixing reactors are very commonly used for the solids dissolution, product mixing, chemical reactions, batch distillation, crystallization, liquid/liquid extraction and polymerization.

Application of the Mixing Plants

- Chemical Plants
- Paint Manufacturing
- Pharmaceutical Industries
Process Plants are large scale manufacturing setup, the main objective of such setup is to help the companies involved in the large scale manufacturing process.

KERONE helps following industries with its Process Plants:
- Chemical Plants
- Pharmaceutical Plants
- Biochemical Plants
- Oil Refineries
- Food And Beverages
CIP (Clean-in-Place) systems offers the arrangement for cleaning/sterilising the interior surfaces of vessels, equipment, filters, pipes and fittings, without disassembling them.

SIP (Steam-In-Place) Systems are liable for frequently steaming parts of product contact, vessels, flow paths, and sample ports.

The CIP/SIP systems together help in maintaining the desired level of hygiene, by continuously killing the germs.
Powder Transfer Systems

The PTS Powder Transfer System is an extraordinarily efficient and dependable technique of conveying and dispensing dry and wet powders and granules.

Main Components of Powder Transfer System

• A vacuum conveying system utilizing Roots Blower, Modular construction equipment.
• Jet Air Wand with Air regulating Damper.
• Jet Air Wand fitted with stainless steel wire mesh to stop foreign particles entry in to process.
• Entire transfer through electro polished pipe with curvilinear bends and isolating valves both manual and pneumatically actuated.
• Suitable filters pleated 5 micron in the product unloading chamber, pulse jet type for inside cleaning.
A batching system is batch operating production process, in this production occurs in sequential steps in discrete batches.

Processing take place

A batch raw material(s) is fed

Outputs are removed
Pilot / Lab Scale Plants

Pilot Scale Plant

Pilot scale process equipments are for small industrial system, which is operated as the subset of the full-fledged industrial machinery. Pilot scale process equipments are just replica of the large scale process equipment only deference is the size and input capacity which is comparatively less.

Lab Scale Plant

Lab scale process equipments are very small scale processing such as R&D and laboratory experiments, the lab scale process equipments are made to provide the high level of accuracy. As the name suggests the lab scale process equipments are comparatively smaller in size and capacity but are equipped with the high degree of control and various experimental setting.
Single fluid heating cooling system is normally connected to a single reactor, where the Temperature of the system is varied as per the process requirement.

The Hot Water System is available for use with plant steam or electricity as the heat source. Both steam and electric units come in single and dual zone configurations.

Expensive and high-grade products are not produced in large quantities, as they are typical for pharmaceutical industry, & also for fine/special chemical areas.

We design Many types of Distillation Operations could be carried out in the system like as Simple Distillation, High Vacuum Distillation, Fractional Distillation, Azeotropic Distillation.
Cyclone Separator

**Definition:** Cyclone Separator is used to separate the solids from the air, gas and liquids without any filter.

**Operating Principle:** Cyclone separator operates on the principle of the centrifugal force. The separation depends on both the particles size and the density of the particles.

**Typical Working**

- The suspensions of a solid gas usually air is introduced tangentially at a very high velocity so that rotary movement takes place within the vessel.
- The fluid is removed from the central outlet at the top.
- The rotary flow within the cyclone separator causes the particles to be acted on by centrifugal force.
- The solids are thrown out to the walls, thereafter it falls to the conical base and discharged out through solids outlet.

*Images courtesy Wikipedia*
The Bag house or fabric filter is an air pollution controlling mechanical setup; it removes the contaminations from the air/gas released from the industrial processes.

*Images courtesy Wikipedia*
Trusted Partner of following consultants

AFCONS  BV Consulting Group  TEIL

Lloyd’s  Toyo Engineering

EIL  HIL  TÜV  Sterling and Wilson

Technip  Reliance Engineering  SC Shroff Consultants

Zeppelin  Tata Consulting Engineers Limited
Our Clients

Serving across Continents:

We are Exporting more than 50 Countries...
KERONE Engineering Pvt. Ltd.

Reach us at:

Unit-1 : B/10, Marudhar Industrial Estate, H.P. Gas Godown Lane, Goddev Fatak road, Bhayander(E), Mumbai-401105
Phone : +91-22-28150612/13/14

Unit-2 : Plot No. B-47, Addl. MIDC Anandnagar, Ambernath (East), Dist. Thane- 421506
Phone : +91-251-2620542/43/44/45/46
E-Mail : info@kerone.com, sales@kerone.com, unit2@kerone.com

KERONE Engineering Pvt. Ltd.