



Alfatech
Engineering Ltd.



Engineering Solutions for Business World



We aim to provide and serve our customers with a wider range of high-quality products and solutions, based on our focus on innovation, quality and development of technological capabilities.



info@alfatechmuhendislik.com



www.alfatechmuhendislik.com



Contents

About Us	3
Turnkey Projects	4
Reactors	5
a. Industrial Size Reactors	
b. Lab-Size Reactors	
Mixers	9
a. Industrial Mixers	
b. High Shear Mixers	
c. Horizontal Mixers	
d. Paste Mixers	
Filling Systems	15
Dosing Systems	17
Laboratory Process Systems	18
Conveyor Systems	19
Consulting Services	20
Industrial Automation	22
Mobile Vessel&Tank Washing Machine	24
Distillation and Evaporation	25
Heat Exchanger	27
Storage Tanks	29
Steel Construction	31
Equipment	32
Filters	34



About Us

Alfatech Engineering is proud to serve its **customers worldwide** with the vision of high quality, technological, low-cost, durable **products and processes** in many industries such as food, beverage, chemistry, petrochemistry and pharmaceuticals. Many of these sectors are experiencing global growth, which we want to grow with. Our future **strategy is based on strengthening** our position in industries while focusing on cutting-edge engineering to accelerate profitable growth and better serve our customers.

Alfatech Engineering follows and develops product innovation through R&D and digitalization “**Innovation and Digitalization**”. In addition to introducing **new products**, we will offer our customers more technological, **engineering solutions** and **products to further** improve their production. Our mission is to produce solutions and products for a better world and a better future.



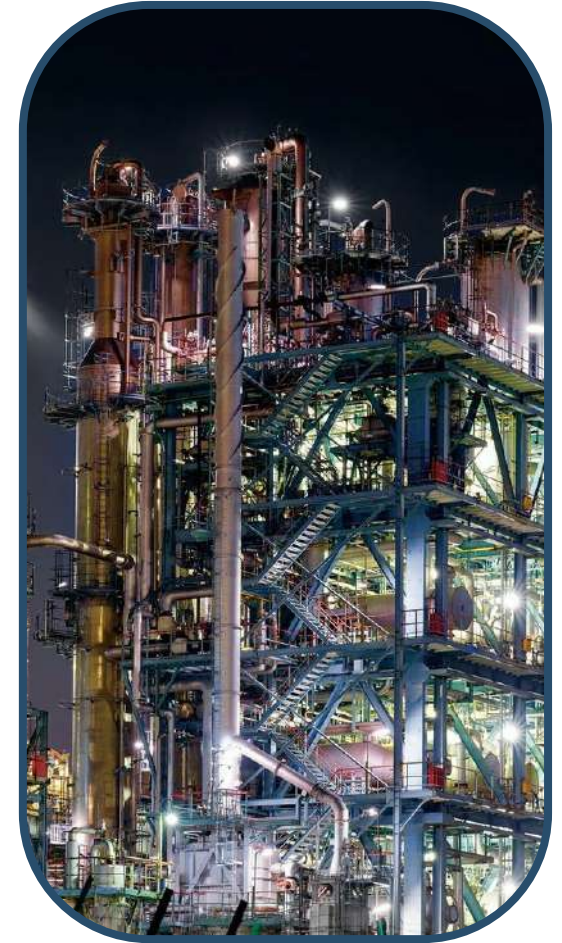


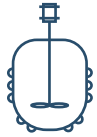
Turnkey Projects

Alfatech Engineering serves its customers with the highest quality, technology and efficiency standards in the business world during turnkey project stages such as design, manufacturing, assembly, commissioning and technical support.

Turnkey projects constitute the main business area of Alfatech Engineering as they cover all stages of production. Turnkey projects cover all actions related to planning, engineering design, infrastructure construction, mechanical and electrical equipment manufacturing, delivery, installation, commissioning, personnel training.

Alfatech Engineering provides services in the production and supply of various Process Facilities, constructions and Equipment such as Chemical Plants, Food Processes, Distillation & Evaporation Processes, Pharmaceutical Machines, Waste Water Treatment Systems, Industrial Reactors, Industrial Mixing Machines and Systems, Industrial Evaporators, Dosing&Filling Systems, Heat Exchangers and Process automation and more. These products are manufactured with high quality and technology, consistent performance, long service life and also in compliance with global quality norms such as EN, API, ISO and CE.





Reactors

ALFATECH's innovative efficient mixing and special design reactors are essential for agitation, pressurization & vacuuming, mixing and heat transfer solutions required to increase the performance and reduce production costs of many reaction processes such as the chemical, food, food and beverage and pharmaceutical industries.

A reactor is a process equipment in which chemical reactions take place to cause chemicals to react chemically with each other to obtain the desired product. Chemical reactors are designed to increase the net present value of a given reaction and are designed to provide the most efficiency to produce the desired product and to ensure that the desired product is produced at the highest efficiency. There are different types of reactors designed to operate with extremely variable operating conditions, both in terms of the nature of the chemical species involved (reactants and reaction products) and the physical conditions in which they operate.

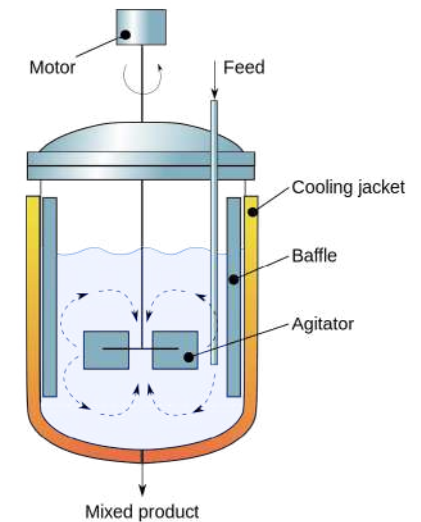
- To provide the necessary residence time for the reactants to complete the chemical reaction
- To ensure the necessary heat exchange
- Pressurization and vacuuming
- Bringing products into close contact with the mixing process to facilitate the reaction





Reactor Features

- Design and production according to international standards
- High quality and long life guarantee
- AISI 304, 316, 316L quality and certified stainless steel material
- Heating and cooling with jacket or half pipe on the outer body and spiral pipe on the inside
- 1/+6 bar pressure and 300°C temperature resistance
- Precise weighing with loadcell
- Sealing with soft & mechanical seal
- Reducer drive IP54-IP56 (Exproof) different motor power and mixing speed
- Specific mixing blades correspond to product, baffles for optimum mixing





a. Industrial Reactors

Industrial Reactors have always been considered the heart of many processes. The high quality and efficient design of Alfatech's improved reactor will provide often significant cost savings and revenue potential for chemical, food, pharmaceutical and many industrial facilities.

Industrial reactors are essential for most industrial processes; It helps create new compounds and change&improve the properties of existing compounds. They can also be used to control the conditions under which reactions occur, resulting in more efficient processes and lower energy consumption. Additionally, reactors are easy to install and can be designed for specific process needs.

Reactors provide the following advantages respectively:

- Higher product selectivity and yield in many organic reactions by minimizing side reactions,
- Production of materials with special properties (e.g. particle size, morphology) with precise control of process conditions,
- Accelerated development and optimization of new chemical processes,
- Quick adaptation to changing process parameters,
- Efficient, sustainable and cost-effective production thanks to less raw material and energy usage.
- Many reactions such as polymerization, epoxidation reactions, synthesis of ionic liquids, nitration, hydrogenation, and ethoxylation reactions can be carried out





b. Laboratory Size reactors

Laboratory-sized reactors provide the user with greater control over chemical reactions, including temperature control of vessel contents, measurement of parameters such as pH or pressure, and mixing and dispersion processes. Reactors with explosion and fire proof design (ATEX) allow safe handling of solvents during the reaction.

Features;

- Versatile functions of mixing, synthesis, solvent recovery and Decarboxylation
- Stainless steel design
- Polishing surface quality in accordance with Food and Pharmaceutical industry standards
- Quick installation and easy maintenance
- Detachable and volume customizable condenser and collection tanks
- Provides long-term durability and operation with solvent-resistant PTFE in all sealing components
- Special design for different applications
- Specially designed structure for ergonomics and stability



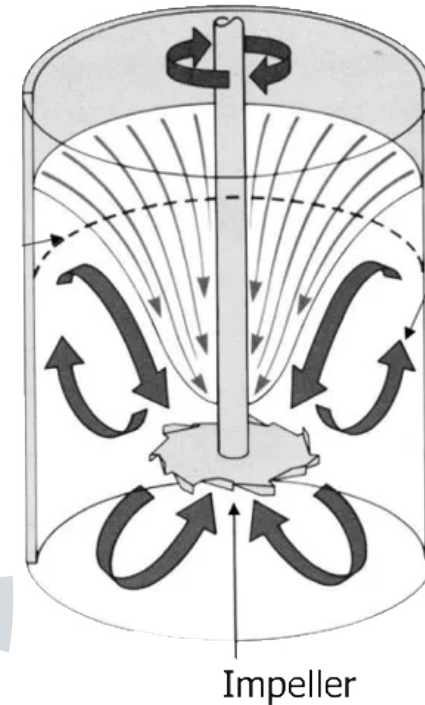


Mixers

Mixing is performed to create one or more flows, heat and/or mass transfer between components or phases. The type of process and equipment used during mixing depends on the physical state of the products being mixed (liquid-liquid, solid-solid or liquid-solid) and the miscibility of the products being processed.

Mixers are created from a mixing vessel where products can be heated/cooled using water heating and/or cooling applications. The industrial chemical mixer also provides continuous mixing with variable efficiency and mixing time. Modern industrial production almost always requires some form of mixing. Machine and mixture designs are made according to the mixing type and the products to be mixed, so there are many mixers for different types of mixture applications. As Alfatech, we serve the mixing needs of our customers with our high quality and technological products.

Millbase
rest
level



Flow
pattern

Impeller





a. Dissolver Mixers

Equipped with high technology Alfatech Dissolver Mixers are designed to optimize the raw material, premix it and prepare it for transformation into superior quality products.

To achieve efficient mixing, designing and improving mixing processes requires a large amount of engineering effort. Mixing design, heating and impeller speed, mixing significantly affects its quality. Dissolver mixers are used in chemicals, food, medicine, etc. It is mainly used in premixing liquid-liquid or liquid-solid mixing applications in many industries. With their simple and useful design, Dissolver Mixers are efficient and easy to use.

Features and Advantages;

- EN-CE conformity
- SCADA automation, remote control, safety system
- Exproof design in accordance with ATEX certification (zone0, zone1, zone2)
- Stainless design and surface quality for industries such as food, medicine and chemistry
- Heating&Cooling
- Different mixing speeds
- Simple, safe and ergonomic design





b. High Shear Mixer

The Laboratory High Shear Mixer design consists of a single stage rotor that turns at high speed within a stationary stator. With rotating blades products pass each opening in the stator, they mechanically shear particles and droplets. Through centrifugal force product dispers at high velocity into the surrounding mix, creating intense hydraulic shear. As fast as product expels, more is drawn into the bottom of the rotor/stator generator which is creates vortex movements which promotes continuous flow and fast mixing.

The Laboratory High Shear Mixer design consists of a single stage rotor that turns at high speed within a stationary stator. With rotating blades products pass each opening in the stator, they mechanically shear particles and droplets. Through centrifugal force product dispers at high velocity into the surrounding mix, creating intense hydraulic shear. As fast as product expels, more is drawn into the bottom of the rotor/stator generator which is creates vortex movements which promotes continuous flow and fast mixing.



Advantages&Properties;

- IP54/Exproof motor&design
- Variable speed control from 500-3,000 rpm
- Touch screen control and display
- Batch timer and 200°C temperature Electronic lift.
- Stainless steel design 316 wetted parts.
- Easy to disassemble and clean.
- Different sizes
- Easy use&maintenance
- ATEX certification(on demand)



c. Horizontal Mixers

Alfatech's high quality and efficient horizontal mixers are designed for precise product homogenization, processing of solid mixtures, solid-liquid mixtures or pasty mixtures. The product range extends from powder mixers to heavy-duty designs. Even small quantities can be fed into the mixer manually. A common practice in the food-feed industry, it is also used in the preparation of baking mixtures. By using special mixing elements and additionally attached cutting heads, flour, water-based substances and other ingredients are mixed in high viscosity and in the shortest time.

Alfatech's wide range of high quality and efficient horizontal mixers

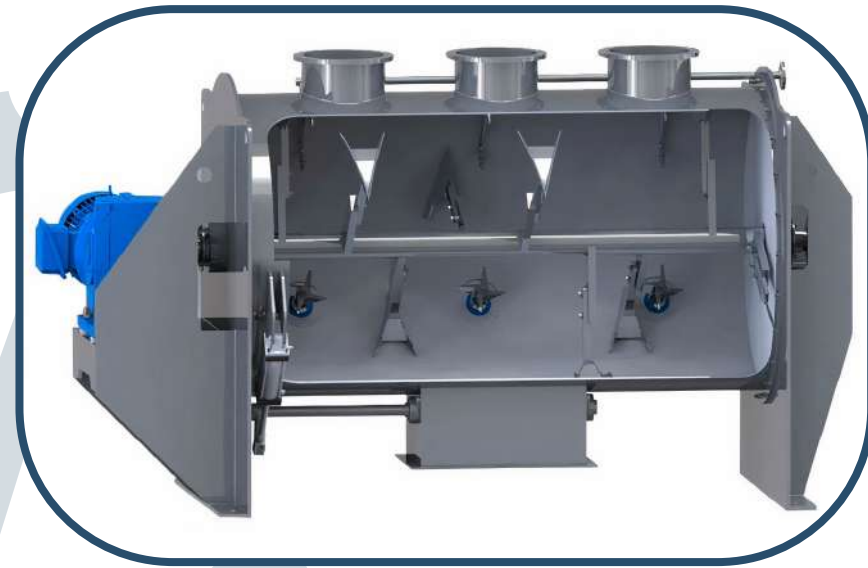
It is produced for automatic processes in industrial areas. Our homogenizing, agglomerating, granulating or humidifying mixers are used in a variety of applications, from the preparation of powders in the chemical industry and flour mixtures for the food industry, to the production of cement mixtures for construction in the power plant engineering sector.





Advantages of Horizontal Mixer

- Intensive mixing action, batch or continuous operation
- Excellent mixing quality
- Fast mixing, low residue discharge
- Consistently repeatable product quality
- ATEX design
- Ease of use, cleaning and maintenance
- Stainless Steel design AISI304&AISI316 for different usage areas
- Product-specific design and capacity
- Polished surface quality for food and pharma
- Different capacities





d. Paste Mixer

Alfatech's mixers serve the industry's mixing needs such as blending, drying and dispersion equipment. Our mixers are used in the manufacturing of a variety of products including food, cosmetics, personal care products, chemicals, pharmaceuticals, dental supplies, medical ingredients, animal health products, polymers, plastics, composites, coatings, metal blends, adhesives, sealants, etc.

Alfatech Paste Mixer consists of a planetary mixer and a high-speed distributor blade. Both mixers rotate around their own axes. The scraper removes material from the side walls of the container.

and sweeps it from its base and carries it to the shredding toothed blade. This accelerates the wetting and dispersion of solids, ensuring both material and temperature balance at all times throughout production.

Paste Mixer Advantages;

- Variable speed for each mixer with inverter
- Vacuum/pressure application
- Cooling & heating with jacketed boiler
- Shiny surface quality
- Remote control
- Continuous production via mobile vessel
- Easy cleaning thanks to vertical lifting
- CE&ATEX design for explosive and flammable productions
- Automation, mixing time, product temperature, pressure & vacuum, mixing speed control
- Easy use and maintenance





Filling Systems

It covers a wide range of filling systems of many different designs, from small filling systems with automatic or semi-automatic procedures to ATEX and complex automation systems.

Filling Systems

Filling Systems covers a wide range of systems with many different designs, from small filling systems with automatic or semi-automatic procedures to ATEX and complex automation systems. Depending on the design, they combine feeder and filling technology, packaging technology, robotics and visual object recognition systems. They can be broken down into numerous technical variables and differ in the level of automation. The feeder or filling unit is what they all have in common. They differ in preparation, sealing and follow-up functions depending on the material and requirements.



Designing The Filling System

The key parameter in planning a perfect filling system is material diagnosis.

Basic distinction;

Liquid Filling Systems > Liquids

Solid Filling Systems > Bulk material, pastes





In order to choose the perfect filling system, material properties also need to be classified. The first criterion is the flow characteristics, which places special demands on the feed design and the type of feeding device used in the system. Other criteria include bulk density, viscosity, grain size, flammability and toxicity of the materials. Material properties determine the feeding device, pre-tank and discharge aids. Filling machines are an important part of the industry. They help fill and package different types of chemicals into different types of containers, bottles, IBCs and many sizes and volumes. These machines are designed to ensure safety, accuracy and efficiency in the filling process while also preventing contamination or spills. Chemical filling machines can fill a wide variety of chemicals, including acids, solvents, corrosives and other hazardous chemicals. The type of chemicals that can be filled depends on the compatibility of the chemical with the filling machine and container.

Using a chemical filling machine offers several benefits, including:

- Increased efficiency and productivity
- Improved accuracy and consistency in filling
- Less labor costs and manual errors
- Minimizing waste and spills
- Better security and compliance with regulations
- Can be customized according to special design

When choosing a chemical filling machine, it is important to look for safety features that ensure the safety of operators and prevent contamination of chemicals. These features may include:

- Explosion-proof design
- Anti-static materials
- Ventilation system
- Automatic shut-off valve
- Emergency stop button





Dosing Systems

Alfatech Engineering find solutions to our customers with our best, environmentally friendly, high quality and compact feeding and dosing machines. Our volumetric and gravimetric feeding systems guarantee extremely accurate and high-quality work in applications such as small/main ingredient preparation, pre-mixing, recipe processing, blending and packaging.

Compact Feeder for Small and Large Capacities

Dosing systems are used in a wide variety of industries, from food and beverage to paint, industrial chemicals, sanitation and many more applications. Chemical dosing systems are used in a variety of industries and applications to accurately and efficiently add chemicals to a process or system. These systems are designed to deliver precise amounts of chemicals.





Laboratory Process Systems

Our high-quality laboratory-sized systems enable our customers to conduct feasibility trials for R&D of innovative product developments, complete production scale-up studies, maximize their development through optimal technology selection and existing process optimization.

Our universal laboratory systems are a versatile, high-quality system with a variety of features that meet the needs of most reaction processes, including distillation, phase separation and dosing. Our knowledge and experience in construction results in a multifunctional chemical processing system that offers excellent value. Each system is built to order and therefore fully configurable to meet your specific process needs.

- Reaction(Vacuum&pressure)
- Temperature regulation
- Temperature monitoring
- Mixing at different speeds
- Return flow (reflux)
- Phase separation
- Vacuuming & Pressurization
- Distillation
- Product cooling & heating
- Pressure monitoring&relief
- Additional functions according to user request





Conveyor Systems

Alfatech engineering produces high quality and efficient conveyors with different designs that meet the needs of different industrial processes. Screw conveyors or screw conveyors are widely used in chemical, food, petro-chemical, pharmaceutical and many industries.

Screw conveyors or screw conveyors are industrial equipment used to move large quantities of granular solids (e.g. powder, grains, granules), semi-solids, liquids and even non-flowable materials from one point to another. They support high operational efficiency by eliminating the need for workers to manually move around loads. It provides the advantage of safe and efficient product loading by eliminating labor force and possible work accidents.



Advantages;

- Screw conveyors are capable of handling a wide range of bulk materials, from slow to free flow.
- Screw conveyors may have multiple entry and exit points.
- Bulk materials can be transported and distributed to various locations as needed. Slide gates or valves can be added to control the flow into and out of the screw conveyor.
- When a screw conveyor is used as a measuring device, a screw feeder can be used.
- Screw conveyors are very compact and can be adapted to tight locations.
- Screw conveyors can be used to mix various products together and break up large lumps.
- Screw conveyors can be used to cool, heat or dry products in transit.



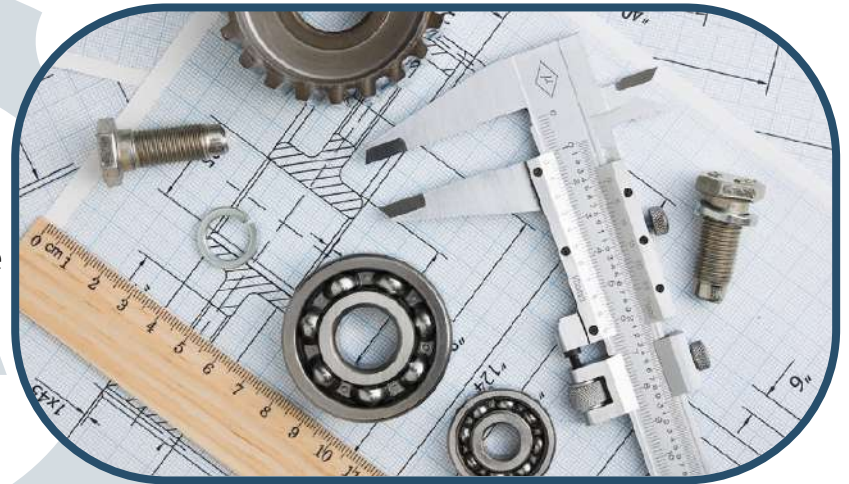


Consultancy service

Alfatech customer-focused consulting services focus on our customers' most critical problems; Supports many industries with process automation, process design, system operation, optimum design and calculations, plant assembly, ATEX Certification and engineering support.

With the various options of Alfatech's innovative and customer-oriented service concept, our customers are optimally supported throughout the entire life cycle of their installed systems and components. We serve our customers in many areas, from project engineering, installation and commissioning to maintaining and improving the performance of the customer's facilities and equipment.

Alfatech's consulting services focus on our customers' most critical issues and opportunities, such as design, installation, facility startup, process automation, systems improvement and replacement, certification and sustainability, across many industries and geographies. We are here to provide engineering solutions to our customers!



ATEX Certification for use in potentially explosive environments strict compliance with the ATEX directives given to the equipment tested and intended for use in the European Union It is an arrangement that ensures safe operation. Products compliant with ATEX Certification Directives have been proven to be safe to use in environments with explosive atmospheres, specifically for the region(s) for which they are certified for use.

ATEX Directives

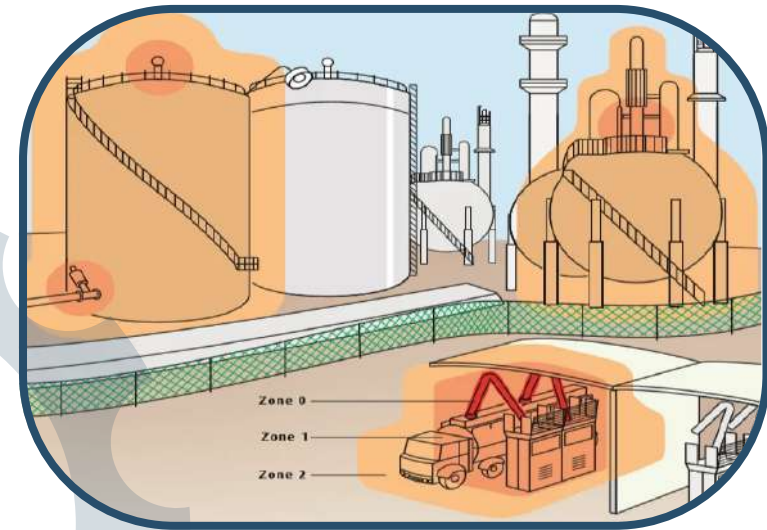
There are two ATEX Directives, one for the user of the equipment and the other for the manufacturer:

ATEX Directive 2014/34/EU (Equipment) – Potentially explosive Equipment and protective systems intended for use in environments.

ATEX Directive 1999/92/EC (Workplace) – Minimum requirements to improve the safety and health protection of workers potentially at risk from explosive atmospheres.

Why is ATEX Certification Important?

If you manufacture products for use in potentially explosive atmospheres, you must provide assurance that your equipment will not cause an explosion during routine operation and complies with ATEX Directive 2014/34/EU.



ATEX





Industrial Automation

We offer our customers process automation or automation system solution services used for automatic control of chemical, oil refineries, food, wood and many industrial processes.

System-process automation works by breaking a business process into smaller, more manageable components and then automating those components. Thanks to process automation, efficiency, time savings, profits, energy savings and safety increase. Thanks to high-quality process automation, customers can control and manage the system at any time, on any date.

Once components are automated, they can be integrated into a workflow that streamlines a larger business process. This workflow can be customized to meet an organization's specific needs, providing greater flexibility and adaptability.

A good system-process automation strategy involves continuous improvement, which should include three main efforts.





Industrial Automation

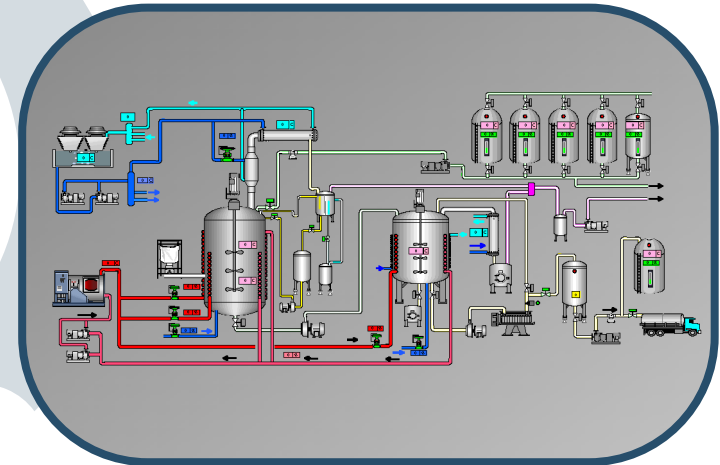
Design: Design processes and process updates along with development so operators and IT teams can easily collaborate on process improvement.

Automate: Automate your process as needed with a unified platform for process automation that provides the technology or worker best suited to the challenge.

Optimize: Optimize business efficiency through process improvement. Leverage the insights you need to determine the value of your digital solutions and where to apply your efforts for maximum benefit.

Benefits of automation include improved accuracy, reliability and productivity, as well as improved employee morale. Let's examine the advantages of automation in detail;

- Productivity
- Savings
- Sufficiency
- Compatibility
- Reduced Errors & Work Safety
- Customer happiness
- Increasing employee satisfaction and retention
- Elimination of paper-based processes
- Standardization and cleaner data
- Scalable processes





Mobile Vessel&Tank Cleaning Machine

Alfatech Engineering serves our customers with the production of high quality and efficient mobile boilers and Boiler Cleaning Machines for many industries such as Chemical, Pharmaceutical, Food & Beverage.

On request mobile boilers can be polished and both containers Electro-polishing process can also be applied both inside and outside.

Advantages of Mobile Vessels;

- Efficient and precise use
- Suitability for pre-mixing of ingredients
- Advantage of changes in the position or movement of the products due to its mobile structure
- High quality special design
- CE&ATEX conformity
- Stainless steel design
- Heating & Cooling applicability

Tank & Mobile Vessel Cleaning Machine

Tank & Mobile Boiler cleaning is important in optimizing production efficiency. Thanks to the tank washing machine, significant advantages are provided in many areas such as efficient and safe tank cleaning, high production quality, occupational safety, reducing operating costs, reducing the use of solvents, hygienic production, time saving and increasing efficiency. Thanks to its safe structure in accordance with ATEX directives, it provides many advantages to both our employees and customers, such as significant occupational safety and low cleaning costs, in the process of cleaning products from tanks & boilers with solvent in explosive & flammable environments.





Distillation and Evaporation

Evaporation & Distillation processes have a wide range of uses in chemical, food and many industries. We produce high-quality, high-tech and efficient machines for evaporation or distillation.

Evaporation

Evaporation occurs below the boiling point of the liquid. Liquid molecules located only on the surface absorb energy from the atmosphere, break intermolecular bonds and pass into the gas phase. The molecules in most of the liquid evaporate only when they reach the surface and are exposed to the atmosphere.

Thin film evaporator consists of two major assemblies; a cylindrical heated body and a rotor.

The product is introduced above the heated zone and is evenly distributed over the evaporator's inner surface by the rotor with centrifugal force. As the product spirals down the wall by gravity, the high rotor tip speed generates highly turbulent flow resulting in the formation of bow waves and creating optimum heat flux and mass transfer conditions.

Volatile components are rapidly evaporated via conductive heat transfer and vacuum. Heated vapors are ready for condensing after exiting the vapor discharge section.





Distillation Processes

Modern separation technique adapted to the different boiling points of liquids. This is due to the strength of different intermolecular forces of substances. Different liquids boil at different temperatures because the heat energy required to break bonds varies.

Distillation is used to separate liquid mixtures. This involves boiling and thickening liquids.

The liquid is heated and boiled at boiling point. The temperature remains constant until the liquid involved is completely evaporated. The vapor is then converted into liquid phase with the help of a condenser.

There are various distillation methods such as simple distillation, fractional distillation and steam distillation.

Simple Distillation: This is used to separate liquids that have a significant boiling point gap. The components of the liquid mixture are separated when they boil at their respective boiling points and pass into the vapor phase. The steam is then condensed and collected.

Stage Distillation: In these methods, a fractionation column is used to separate two miscible liquids with close boiling points.

Steam Distillation: Steam is used to separate compounds that are immiscible with water. When such compounds are mixed with steam, they tend to evaporate at a temperature lower than their normal boiling point.





Heat Exchanger

We produce heat exchangers that will meet the needs of our customers in the industry with high technology engineering and high quality.

There are numerous variations in heat exchanger design with design variables such as working fluid, secondary fluid, geometry and material. Common secondary fluids include water, air, refrigerants, or phase change materials.

The heat exchanger has two important design advantages over other cooling technologies;

- Heat transfer with latent heat is much more efficient than heat transfer with sensible heat alone
- The temperature of the working fluid remains relatively constant during condensation, maximizing the temperature difference between the working fluid and the secondary fluid



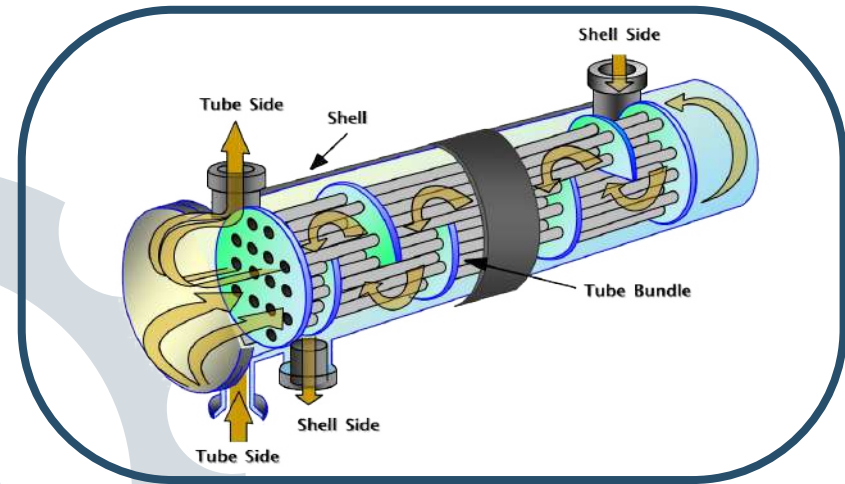


There are various types of heat exchangers;

- U type heat exchanger
- Tubular heat exchanger
- Double pipe heat exchanger
- Plate heat exchanger
- Scraped surface heat exchanger
- Finned heat exchanger

Benefits of heat exchangers in process systems;

- Smaller spatial footprint
- Lower environmental impact
- Minimum operating cost
- Easy adaptability
- Low cost & maintenance





Storage Tanks

Alfatech's storage applications for liquid or solid materials with different sizes and efficient storage designs to ensure that our customers achieve perfect results.

Storage Tank Types

- **Atmospheric:** atmospheric storage tanks, in atmospheric It is a container containing liquid at pressure. The main design codes for welded atmospheric tanks are API 650 and API 620. API 653 is used for analysis of in-service storage tanks.
- **High Pressure:** A liquefied gas such as hydrogen or chlorine or It must be made to withstand pressures such as compressed natural gas. These tanks may be called cylinders, and because they are pressure vessels, they are sometimes excluded from the "tank" class.
- **Thermal Storage Tanks:** For seasonal thermal energy storage, large insulated and protected water tanks are used to store the sun's thermal heat throughout the year.



Storage Tank Types

- **Milk Tank:** A bulk milk cooling tank is a large storage tank used in dairy farming to cool and maintain the cold temperature of milk until it is collected by a milk carrier. Since milk is separated from the udder at approximately 35°C and retains its natural resistance to bacteria after extraction, milk tanks are employed for rapid cooling to a storage temperature of around 4°C to 6°C. This prevents further microbial growth. Typically constructed from stainless steel, these tanks are utilized on farms to ensure the proper storage of raw milk every day.
- **Oil Storage Tank:** The transfer process of oils is facilitated through wall pumps or stainless valves. Weighing systems are installed at the base of the tank to determine the quantity of the product. These systems, determining the amount of the product, provide users with convenience.





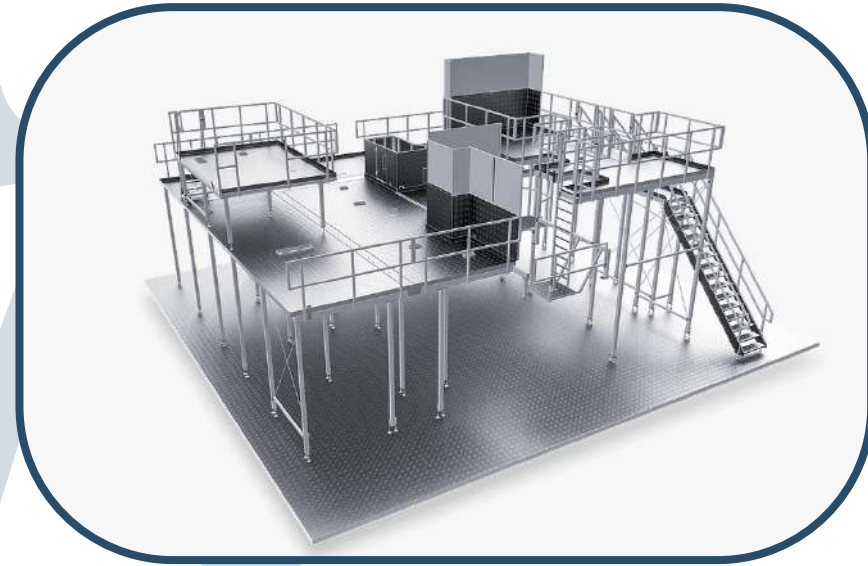
Steel Construction

Alfatech Engineering produces useful, safe steel & stainless steel machine platforms with quality and durable design as engineering solutions for the business world.

Steel platforms are widely used in modern industrial production, petrochemical, chemical, food, pharmaceutical and many industries. The steel platform provides safe working space for industrial production activities and meets harsh field conditions.

The expansion of modern industrial production scale and increasing efficiency has created higher requirements for the structural form and use function of the steel platform. At the same time, the requirements for the structural design of the steel platform are also increasing. Therefore, Alfatech Engineering constantly improves the design level of the steel platform and increases the performance of the steel platform.

Rust and corrosion caused by the external environment will reduce the safety performance and performance of the steel structure work platform to varying degrees. When designing the steel platform structure, attention should be paid to the anti-corrosion and anti-corrosion design of each component.





Equipments

ALFATECH equipment solutions meet the diverse needs of industrial, laboratory-sized facilities and machines. These components are selected to form a complete processing plant or may be parts of a system.

ALFATECH equipment plays an important role in the economy by producing tools and machines that enable other industries to operate efficiently and produce goods and services. Equipment includes the design, engineering, manufacturing, assembly and testing of a wide range of equipment.



Features of Alfatech's Equipment include;

Diverse Product Line: Equipment manufacturing covers a wide range of products including industrial machinery, construction equipment, agricultural machinery, electrical equipment and more.

Customization: Many equipment offers customized solutions to meet specific customer needs.

Advanced Technologies: The equipment manufacturing industry depends heavily on advanced technologies and engineering expertise. Manufacturers use computer-aided design (CAD), computer-aided manufacturing (CAM), robotics, and other technologies to design, prototype, and produce high-quality equipment.

Quality Control: Ensuring the quality and safety of the equipment is very important. Strict quality control and testing procedures are often implemented to meet industry standards and regulations.

Safety Standards: Compliance with safety standards and regulations is very important in the production of equipment, especially for products used in industries with high safety requirements such as healthcare, aviation and transportation.

In summary, equipment is the various and basic parts needed by machinery and devices for various industries and applications, which contribute significantly to economic development and technological progress.





Filters

We find filtering-separation solutions through efficient filtration of particles of all sizes, odors and tastes in our customers' products.

Basket filters are a multi-purpose filtering equipment with its new structure, small size, easy and flexible operation, energy saving, high efficiency, airtight operation and strong applicability.

Bag filter is a new type of filtration system. Inside the bag filter is a metal mesh basket that supports the filter bag; The liquid flows in from the inlet and out from the outlet after being filtered by the bag, impurities are captured in the bag and can continue to be used after the bag is replaced. There are different types and sizes of filters.

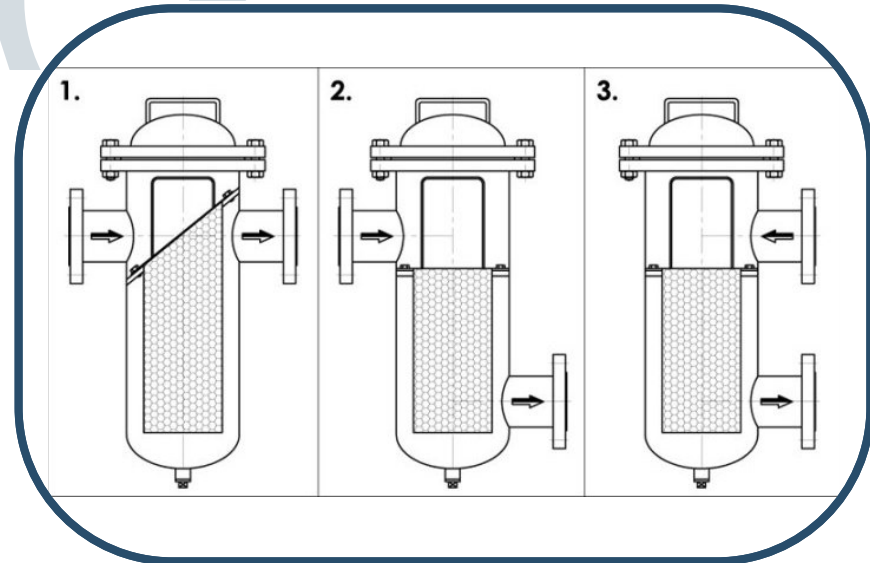
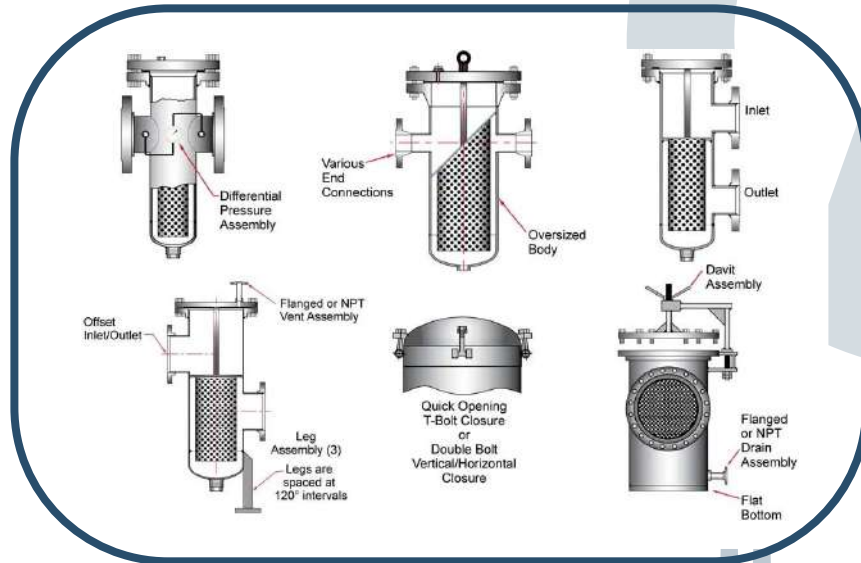
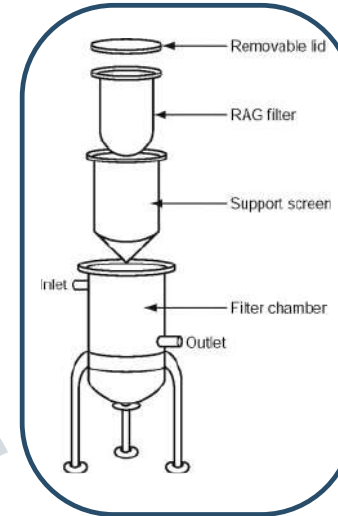
Bag Filter Housing is a type of pressurized filtration device; It mainly consists of filter cylinder body, filter cylinder cover and quick-opening mechanism, stainless steel filter bag reinforcement mesh etc. It has main components such as. The filtrate flows into the filter bag through the inlet pipe of the filter shell, the filter bag itself is installed in the reinforcing mesh basket, the liquid penetrates through the filter bag at the required level of fineness, which can obtain qualified filtrate, the impurity particles are filtered out by the filter bag. Basket filters are very convenient to replace the filter bag. Bag filters come in different types: single bag filter, multiple bag filter, swinging bag filter, high precision bag filter, etc.





Filter Main features and Advantages;

- Internal surface quality suitable for food
- Suitability for working under pressure and vacuum
- High hygiene standard
- Residue-free filtration
- Easy cleaning & replacement of the filter bag
- Ergonomic use
- Stainless steel structure
- Compact design









Alfatech
Engineering Ltd.

Engineering Solutions for Business World



-  www.alfatechmuhendislik.com
-  info@alfatechmuhendislik.com
-  [AlfatechEngineeringLtd](https://www.youtube.com/AlfatechEngineeringLtd)
-  [Alfatech Müh. Dan. Dış. Tic. Ltd. Şti.](https://www.linkedin.com/company/alfatech-muh-dan-dis-tic-ltd-shti)