

Mixing Technology & Plant Engineering for the production of sealants and adhesives



MACHINERY AND PLANT ENGINEERING FOR THE PRODUCTION OF SEALANTS AND ADHESIVES



ABOUT US

In a specialized market, fitech ag has focused on the design, development and manufacture of machinery and equipment for the production of low to high viscosity adhesives and sealants. Engineering- made in Switzerland- stands worldwide not only for a high degree of quality and reliability, but also for a very specific passion. We have lived this passion for intelligent engineering since our beginnings. We combine mixing technology as well as plant engineering and supply automated mixing systems from a single source. With our specialized solutions and know-how, we are an important partner for our customers in the chemical industry.

The machines and systems produced by fitech ag are manufactured and tested in our own production halls. In doing so, fitech ag relies on the long-standing cooperation with selected partners as well as on mature and fail-safe technologies and components.



OUR COMPETENCES

Customized solutions

fitech ag is a sought-after specialist as well as engineering service provider and supplies customized machines and plants on request. Together with our customers, we bring all economic and business factors into a balanced relationship. From raw material reception to the filling of the finished products, we offer competent advice based on the specific customer requirements.

Prerequisite for project success: the team

A team of highly qualified and motivated employees is at your disposal for the success of your project. We are experienced in international plant engineering and know the needs of our customers. The partnership-based contact with them forms the common basis for success.

Solid standards

We guarantee comprehensive know-how, meet high quality standards and offer after-sales service for the entire service life of the installed machines, systems and components. At the same time, we take into account all applicable standards and regulations, the optimal flow of materials and people as well as safety requirements.



FITECH PLANT CONSTRUCTION



Fully automated production plant for silicone sealants

Fitech plant engineering

We are specialized in the systematic and planned approach to the development and implementation of process engineering technologies. Our know-how covers all steps from the task definition, synthesis, analysis and evaluation to the decision on the technical, safety and economic feasibility. We optimize processes and systems in terms of economic and ecological efficiency. Well-founded expertise and application experience gained over decades form the basis for this.

The requirements for a mixing plant are manifold, since the spectrum of different adhesives and sealants is very wide. We serve the different manufacturing processes with modular concepts that are based on the factors of efficiency and economy.

Our expertise ranges from receiving, storing and feeding low- to high-viscosity liquids, handling powdered raw materials with different bulk densities and material properties, to mixing, buffering and filling the finished products. In addition to fully automated closed batch plants, we also supply manual or semi-automated mixing systems.

FROM THE TEST CENTER TO THE FULLY AUTOMATED PLANT



Fully automated production plant for PU adhesives

Fitech mixing technology

Our horizontal mixers are designed for large production volumes. They are particularly suitable for very high-viscosity products and guarantee consistent product quality. The special geometry of the mixing tool enables gentle and homogeneous production of adhesives and sealants. An integrated discharge system ensures almost complete product discharge after the mixing process.

In our vertical mixers, the special beam mixing tool rotates and oscillates in the vessel. A very high circulation can be generated for a fast intake of liquids and powders. The tool is designed for short and intensive mixing phases and passes through the entire mixing chamber. The product is processed in an extremely energy-efficient manner. The mixing tool is designed specifically for the product and is also very suitable for shear-sensitive products.

At the end of the process, the complete mixing tool can be extracted and spun off out of the product under vacuum. This results in a finished product free of bubbles and cavities. The cleaning effort is also considerably reduced, which significantly increases the productivity and availability of the plant.

These are just some of the advantages of our vertical mixing technology compared to conventional systems.

Laboratory and pilot plant trials

In our laboratory and pilot plant, we give our customers the opportunity to convince themselves of our efficient mixing technology by means of tests and trials under real process conditions.

With the knowledge and parameters gained from the mixing trials, we design the most profitable solution for industrial production in each case.

FITECH PRODUCTS



Vacuum Mixing Dryer VT
for the drying of powdery raw materials



Horizontal Vacuum Mixer VMH
for the production of high-viscous products



Vertical Vacuum Mixer VMV
for the production of low up to high-viscous products

Our own products are used for the following relevant process steps in the manufacture of adhesives and sealants.

- Storage, transport and dosing of raw materials
- Preparation of raw materials (e.g. drying)
- Mixing
- Buffering
- Discharging
- Filling
- Storage and transport of finished products

In addition to our product portfolio, we can draw on a broad and proven network of partner companies for supplementary components and services.



Vacuum Mixer Phoenix VMP
for the production of low up to high-viscous products



Large Capacity Vacuum Mixer VGM
for the merging of several small batches



Vertical Mixer Tornado VMT
for the production of low up to middle-viscous products



Container C1000-R
for the storage and transport of pasty products



Vertical Buffer Press VPP
for the buffering of raw materials and finished products



Discharge Station APS
for the discharging of middle up to high viscous products

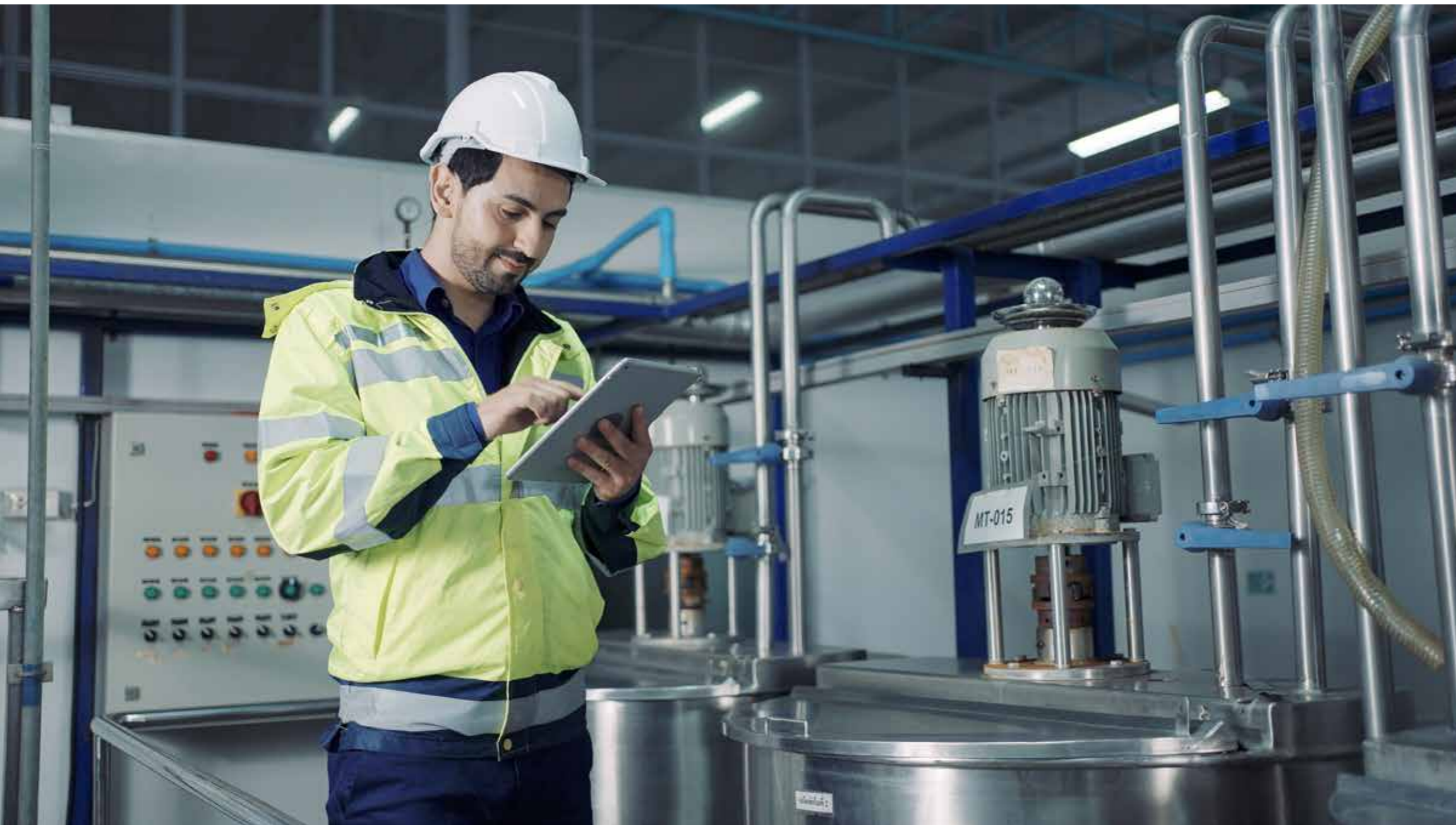
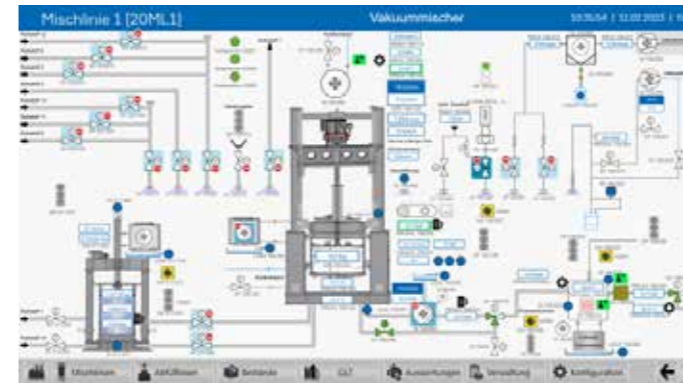
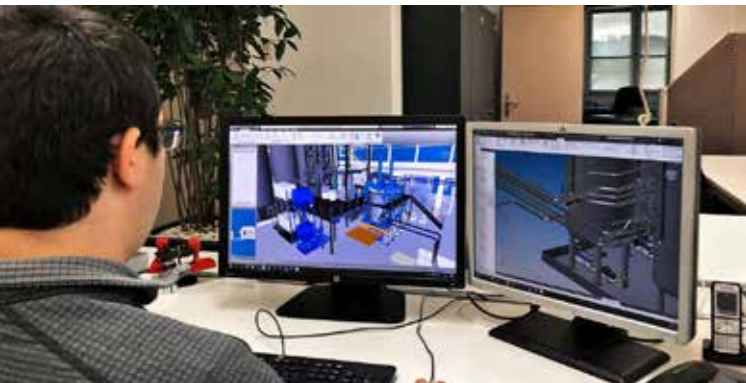


Drum and Pail Filling Unit FHA
for the filling of middle up to high viscous products



Container C890
for the temperature-controlled storage of pasty products

FITECH SERVICES



Fitech services

fitech ag supports their customers in the conception of a new production plant. We accompany you from the first mixing tests in our technical center to the handover on site and plan and build intelligent and resource-saving machines and plants for you.

Complete service offer

- Trials in our test center
- Project studies and analyses
- Concept development
- Project management
- Basic and detail engineering
- Automation
- Procurement
- Fabrication
- Packaging, transport
- On-site management
- Installation, commissioning
- On-site training
- Customer services
- Retrofits & upgrades



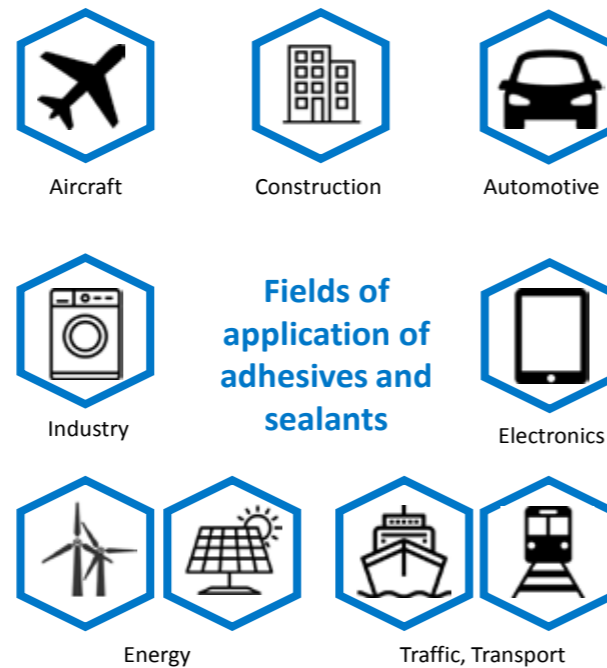
CUSTOMIZED COMPLETE OFFER FOR VARIOUS APPLICATIONS

Fields of applications of our machines and plants:

The products, which are manufactured by the world's leading producers of adhesives and sealants on our machines and systems, are used successfully in the industries shown on the right:

Our machines and equipment are used for the production of the following products:

- Polyurethanes
- Silicones
- MS-Polymers
- Acrylic sealants
- Thermal pastes
- Dispersions
- and many more



Application areas using the example of an automobile

- Seam sealants
- Windshield adhesive
- Mounting adhesive
- Underbody sealant
- Noise protection materials
- Corrosion protection waxes

Our international references



The best services require reliable partner companies in the background. We would like to take this opportunity to express our sincere thanks for their many years of trusting cooperation and for their support in the production of our brochure.

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**Mixing Technology & Plant Engineering
for the Production of Adhesives and Sealants**



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