



Pumps - Mixers - Agitators  
Blenders - Systems



## POSITIVE DISPLACEMENT PUMPS

Positive displacement pumps used in the transfer of viscous products and mixtures containing solid particles; They can transfer the products without getting tired and without disturbing their structure. They offer ideal solutions in difficult processes with flushing, heating jacket and By-pass options. There are also horizontal, vertical and hopper connection options. All metal parts in contact with the product are made of A316 stainless steel. Rubber parts are made of FDA approved Nbr, Epdm or PTFE materials. Depending on the selected model, they have features such as suction, flow adjustment, and high grain size transport.



**Horizontal FDP+ Lobe Pumps**



**Vertical FDP+ Lobe Pumps**



**FTS Twin Screw Pumps**

## AGITATORS

Hygienic mixers, which can be connected to tanks from the side, from the top and magnetically, are used in storage and processing in the food, cosmetic and pharmaceutical industries. All models are made of A 316 stainless steel. It offers ideal solutions for milk, oil, wine and pharmaceutical processes.



**FSEA Bottom Side Entry Agitators**



**FAV Vertical Agitators**



**FAP Portable Agitators**

## MIXER

They are used in dispersion, emulsion and homogenization processes of hygienic solutions. They serve in making liquid powder mixtures and reducing particle sizes. Compared to standard mixers, they shorten the processing time by 90%. There are different types such as vertical on the tank, under the tank, pump type (circulation), highshear and table. It offers ideal solutions for creating homogeneous mixtures in the food, cosmetics and pharmaceutical industries.



**FVM Vertical Mixers**



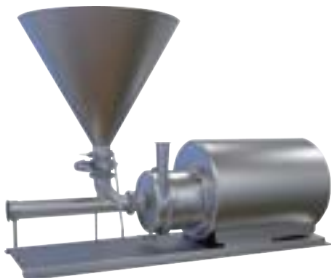
**FIM Inline Mixers**



**FBM Tank Bottom Mixers**

## BLENDERS

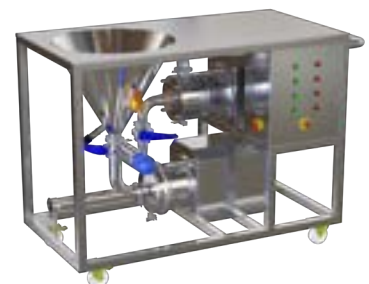
Solid-liquid mixing equipment. The solids can be crystals, granules or powder. Flussmann sanitary blenders are ideal for food, chemical, cosmetic and pharmaceutical industries. The blenders are used to mix solids in liquids. In the food-processing industry, they provide a perfect solution for reconstituting powdered milk, making syrups, preparing brines, etc. They can also be used for preparing solid-liquid mixtures in the pharmaceutical, cosmetics and chemical industries.



**FB 100 Horizontal Blender**



**FB 200 Horizontal Blender**



**FB 300 Table Blender**

## SYSTEM SOLUTIONS

Flussmann provides ideal solutions in food processing, dairy, chemistry and pharmaceutical industries with hygienic systems.



**Manual and Automatic CIP Systems**



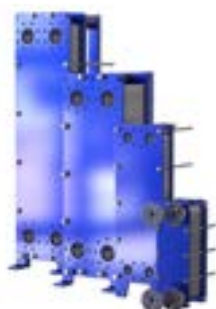
**Unloading Barrel System**



**IBC Tank Agitator**

## PLATE HEAT EXCHANGER

The Gasket plate heat exchanger also called plate and frame plate heat exchanger consists of a pack of corrugated metal plates. The corrugation of the plates provides the passage between the plates, the two fluids transfer the heat between the channels. The plate pack is assembled between a fix frame plate and a movable pressure plate and compressed by tightening bolts. The gasket between the plates seals the inter plate channel and directs the fluids into alternate channels. The number of plates is determined by the design: the temperature program, flow rate, pressure drop and physical properties of the fluids. The plate corrugations promote fluid turbulence and the plate contact point support the plates against pressure.



**industrial PHE**



**PHE Plates**



**Hygienic PHE**



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**Marfil Group Sp. Z o.o. spółka komandytowa**

Ul. Chełmżyńska 70 04-247 Warsaw / Poland - **Mobile:** +48 506 197 962 - **Phone:** +48 22 610 19 82 - [info@flussmann.com](mailto:info@flussmann.com) - [www.flussmann.com](http://www.flussmann.com)