

Overview on our Range of Products



Evaporation plants

to concentrate any type of fluid products and waste water deriving from food, chemical and pharmaceutical industries; with additional equipment for heating, cooling, degassing, crystallization, rectification.

Membrane filtration – GEA Filtration

to concentrate fluid food, process water, organic and inorganic solutions and waste water, to separate contaminations in order to improve quality and recover valuable substances.

Distillation and rectification plants

to separate multi-component mixtures, to recover organic solvents; to clean, recover and dehydrate bio-alcohol of different qualities.

Alcohol production lines

for industrial, neutral, extra neutral and drinking alcohol; integrated stillage processing systems

Condensation plants

with surface or mixing condensers, to condense vapour and steam/gas mixtures under vacuum

Vacuum / steam jet cooling plants

to produce cold water, cool liquids, even of aggressive and abrasive nature.

Jet pumps

to convey and mix gases, liquids, and granular solids; for direct heating of liquids; as heat pumps; and in special design for the most diverse fields of application.

Steam jet vacuum pumps

suction pressure up to 0.01 mbar; product vapour driven; also in combination with mechanical vacuum pumps; extensive application in the chemical, pharmaceutical and food industries; also in oil refineries and for steel degassing.

Heat recovery plants

to utilize residual heat from exhaust gases, steam/air mixtures, condensate and product.

Vacuum degassing plants

to remove dissolved gases from water and other liquids.

Heating and cooling plants

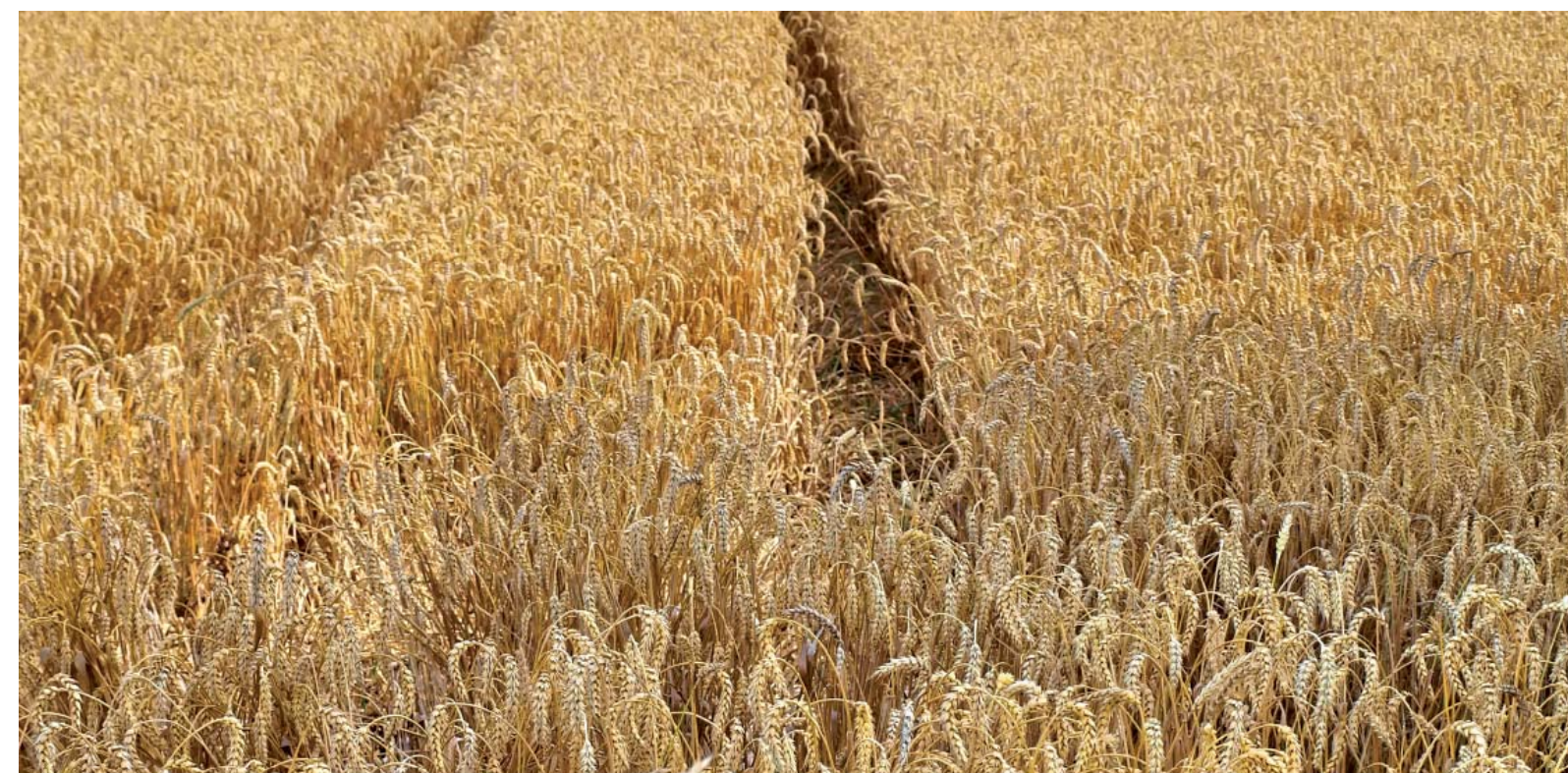
mobile and stationary plants for the operation of hot water heated reactors, contact driers.

Gas scrubbers

to clean and dedust exhaust air, to separate aerosols, to cool and condition gases, to absorb gaseous pollutants.

Project studies, engineering for our plants.

Ethanol Production



GEA Process Engineering

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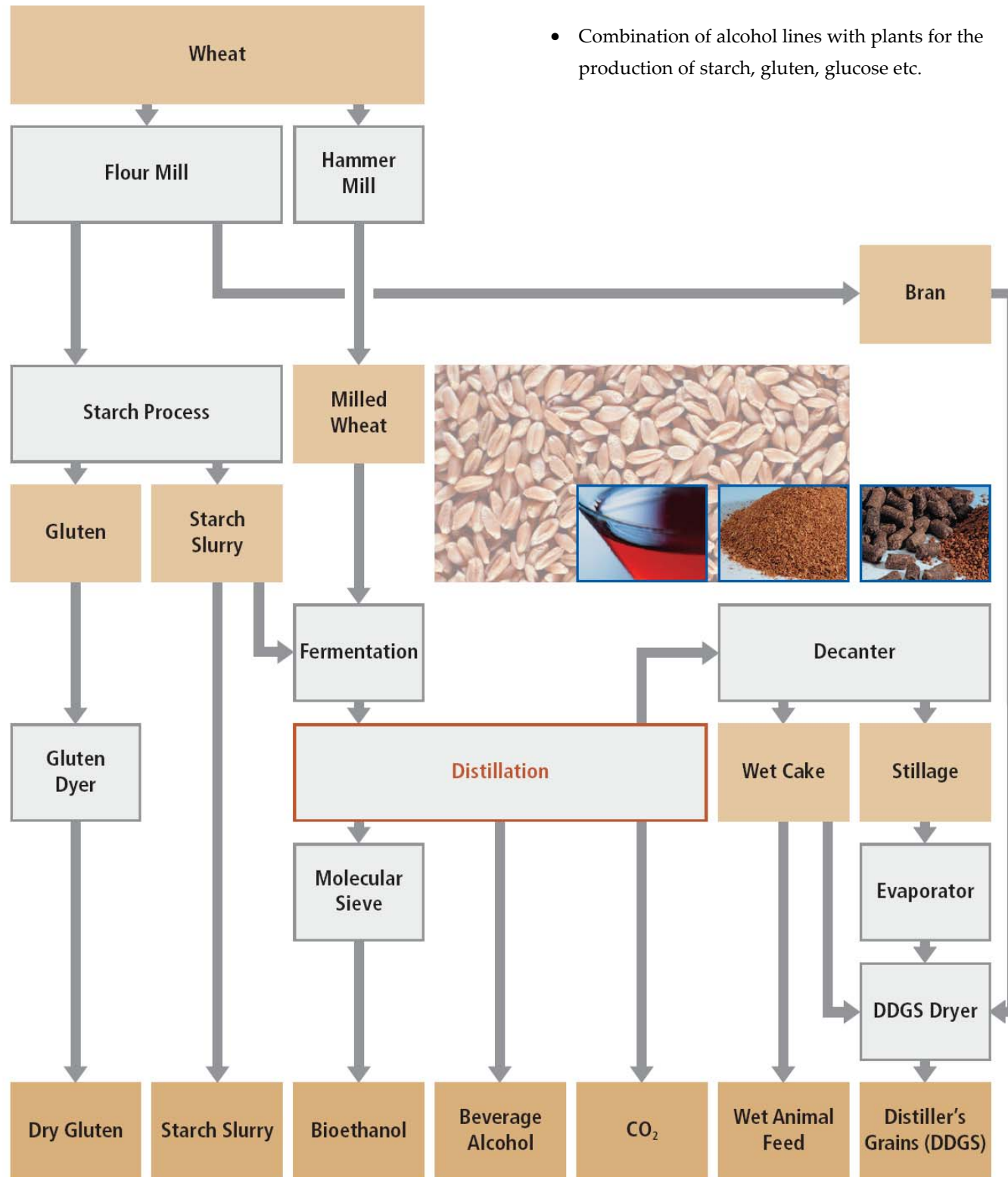
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GEA Process Engineering
GEA Wiegand

GEA Wiegand design and deliver complete processing plants for the production of bioalcohol of different qualities from raw materials containing starch and sugar such as corn, wheat, sorghum, cassava, beet and molasses

Scope of supply:

- Systems for the treatment of raw material, fermentation, distillation, dehydration and stillage treatment up to drying systems for the purification of raw alcohol for the production of neutral and fine alcohol
- Systems for the dehydration of alcohol
- Combination of alcohol lines with plants for the production of starch, gluten, glucose etc.



Main features:

- Reliable, proven processes
- Closed cyclical processes
- Highest possible product quality of alcohol, DDGS and carbon dioxide
- Minimum energy consumption
- Highly sophisticated process control system

GEA Group -Technologies for Biorefineries

Tailor-made systems providing a wide range of upstream and downstream unit operations are available to complete the distillation system. Extensive know-how and long-standing experience within the GEA Group provides our customers with the best, most efficient and reliably engineered solution in each case.

