



**Turn your smart ideas into business success !**

# VALIDATE YOUR INDUSTRIAL PROJECTS

## GEA is ready to serve your development!

In a context where the requirement of the market is increasingly demanding, industrialists must adapt and propose specific, innovative solutions, tailored to the market's needs.

*Test out your ideas with GEA  
prior to launching them on the market.*

### **More than 1,000 m2 to test out your products!**

Since 1902, the year our test centre was created, approximately 1,000 products have been listed. Every year, 30 new products are tested successfully and 50% of the pilot tests are converted into industrial units.

### **Our mission is to respond specifically to your needs.**

Whether you want to change or develop your processes, improve your performance, test out a new product or a new innovation, carry out small-scale production or upcycle a by-product, we take care of your project from A to Z.

*We are also able to validate a comprehensive  
solution for you including the entire process  
and equipment.*

## Our areas of application

We are able to host projects from all the dairy, food-processing and chemical industries.



Milk



Food



Beverages



Chemicals



Health and Personal Care

Our tests are subject to a few conditions:

- Tests on mutagens or carcinogens are not accepted (Categories 1 and 2).
- A validation study is necessarily carried out in advance of a test involving ATEX\* products.
- Radioactive products will be replaced by representative, synthetic and non-radioactive solutions.

## Unique services on the market!

- 100 years' experience *and documentary archives*
- *Strict confidentiality regarding projects*
- A committed team of experts *dedicated to each application*
- *Assistance in* upcycling by-products
- Expertise *in validating* process parameters
- *Ability to* reproduce a complete production line *on a semi-industrial scale*
- *Ability to perform* tests on customer pilots on our premises
- Continuous 24-hour pilot testing
- *Provision of a* graphite pilot for highly corrosive solutions
- *Tailor-made* development of laboratory equipment
- *Ability to perform* small-scale production



Contact us for more information  
[testcenter.fr@gea.com](mailto:testcenter.fr@gea.com)

# Equipment tailored to your ambitions

## The laboratory



### **The laboratory is a key location in our test centre.**

It is used to:

- Test out the behaviour of a product at all stages of the process,
- Check the feasibility of the operation,
- Determine the physical properties of a product at each stage of the experiment,
- Optimise the cost of the pilot unit by selecting the most suitable processes,
- Decide the most suitable construction material thanks to corrosion tests,
- Perform automatic measurements (titrator, Karl Fisher, Viscometer, pressure meter).

10 to 20 litres of your product are sufficient to carry out our tests.



*To meet your specific needs, we develop our laboratory equipment to order*

## The pilot hall



### **A wide range of equipment is available on our site:**

A steam generator, 2 vacuum systems, a hot water circuit, compressed air, a cold water circuit and a refrigerated storage system (cold room).

Pilot units are also planned to validate an industrial process and guarantee the specifications of the end product:

- 7 evaporation and crystallisation units,
- 1 milk evaporation unit,
- 1 ECO-ICEPUSH™ unit,
- 1 ohmic heating unit,
- 3 membrane filtration units (micro/ultra/nano)



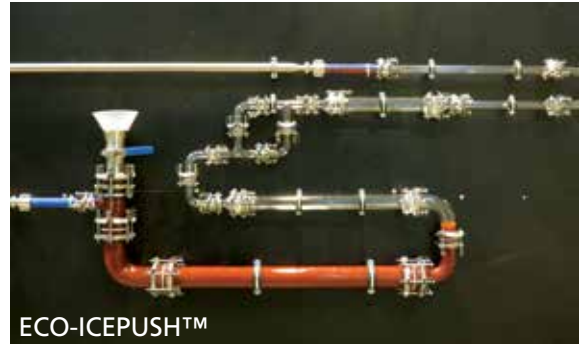
*Other pilots of the GEA group are available*

*(drying, granulation, decantation, homogeniser, filtration, Batch formula...)*

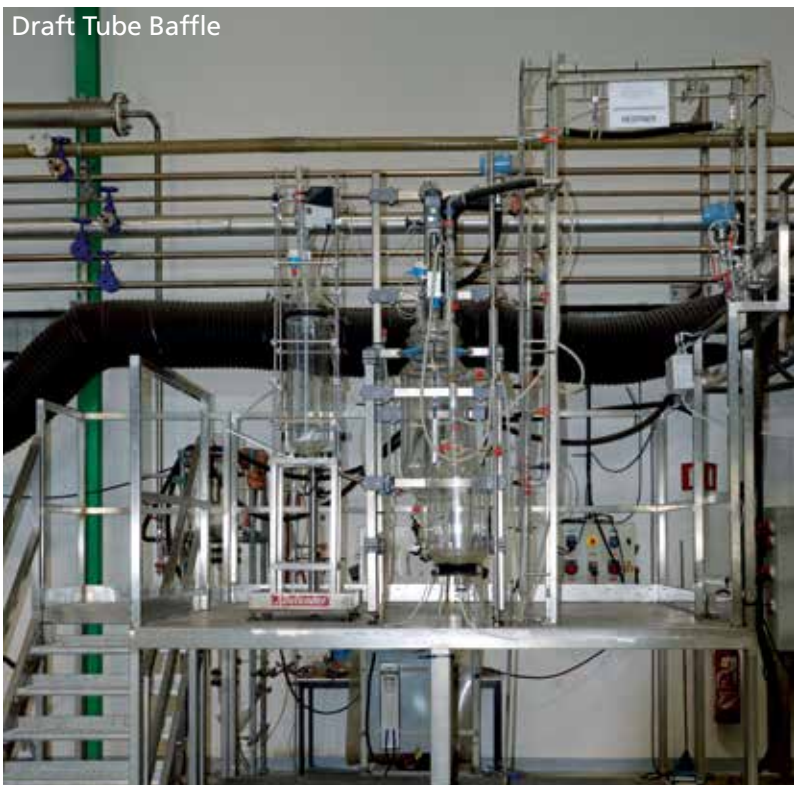
Every year, our highly trained teams successfully carry out several continuous tests (24 hours a day), according to the appropriate safety standards (OHSAS 18001\*). The amount of the product treated can vary from a few kilograms to several tonnes. The tests can take place on our premises or on your site if the product cannot be transported.



Microfiltration Pilot



ECO-ICEPUSH™



Draft Tube Baffle



Graphite Pilot



Mobile Falling Film Pilot



Forced Circulation Pilot



Milk Evaporation Pilot



*We live our values.*

Excellence • Passion • Integrity • Responsibility • GEA-versity

The GEA group, a general engineering company with sales turnover and operations of several billion euros, is present in more than 50 countries. Founded in 1881, the group is one of the main suppliers of innovative equipment and process technology. The GEA group is listed in the STOXX® Europe 600 index.

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