



GEA Lab homogenizers

Table-top and pilot plant machines
for your lab

Lab homogenizers: a complete range for any needs

Laboratory machines enable us to verify the homogenization effects and optimize the use of pressure.

From the initial concept, through pilot trials and final analysis: this is the right way to fine tune the perfect product's formulation and the best homogenizing condition. The complete range of GEA laboratory homogenizers helps to refine the most appropriate recipes, with minimum development time and maximum outcome security.

Test results from laboratory homogenizers trials are reliable when scaling up to larger GEA homogenizer for industrial productions.



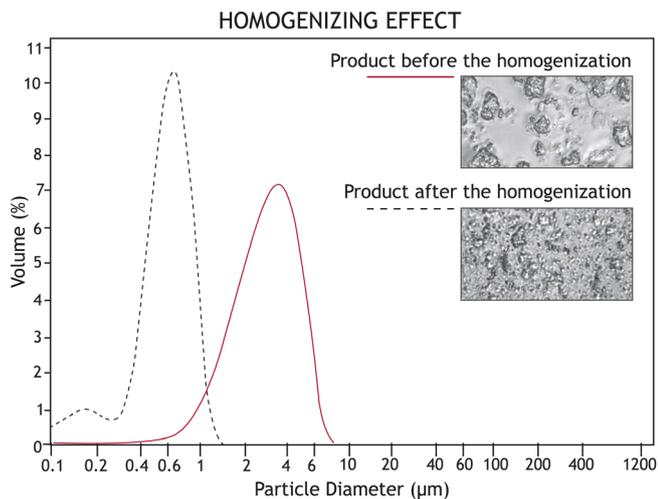
Suitable for any applications

Lab homogenizers are ideal for the treatment of nanoparticles, nanodispersions, nanoemulsions and cell disruption in pharma, biotech and chemical industries but can also be used successfully for processing milk and dairy products, fruit juices and beverage or liquid food products for small production.

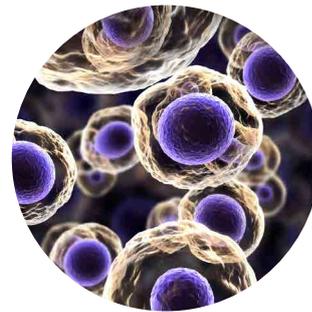
Table-top homogenizers for laboratory tests and small scale production

The Lab Homogenizer PandaPLUS and the Lab Homogenizer TwinPANDA are small and compact machines that offer the possibility of performing tests with small amounts of sample with a guarantee of achieving equal quality results compared to industrial homogenizers.

These homogenizers, suitable for variable speed drive, are designed to ensure the maximum stress resistance to maximize the performances and reliability at high operating pressure.



Example of a food ingredient dispersion



Pilot plant homogenizers: the high pressure units ideal for continuous operation

These pilot plant high pressure homogenizer are designed for continuous operation up to 1500 bar and limited productions easy plug & play installation, simple operation and quick maintenance.

The Lab Homogenizer Pony 2006 and the Lab Homogenizer Panther 3006 models are standalone fully equipped laboratory units for food & beverage, pharmaceutical, biotechnology, cosmetic, chemical testing or small scale production, featuring the performances of the industrial scale homogenizers.

Models	Max pressure	Flow rate
GEA PandaPLUS Lab Homogenizer 1000	1000 bar	20 l/h
GEA PandaPLUS Lab Homogenizer 2000	2000 bar	9 l/h
GEA TwinPANDA Lab Homogenizer 400	400 bar	55 l/h
GEA TwinPANDA Lab Homogenizer 600	600 bar	30 l/h
GEA TriplexPanda Lab Homogenizer 400	400 bar	100 l/h
GEA TriplexPanda Lab Homogenizer 600	600 bar	60 l/h
GEA Pony Lab Homogenizer 2006	1000 bar	80 l/h
GEA Pony Lab Homogenizer 2006	1500 bar	35 l/h
GEA Panther Lab Homogenizer 3006	1200 bar	120 l/h
GEA Panther Lab Homogenizer 3006	1500 bar	50 l/h



Main features:

- Guaranteed scalability of results
- High reliability of performance over time and limited maintenance
- Improved performance thanks to Re+VALVE in reversible ceramic or tungsten carbide
- High resistance and conformity for use with abrasive products
- 2nd stage homogenizing valve

Main options:

- Pressure display and controls
- Pressure gauges and transducers
- Electrical power board
- Basic or extended spare part package
- Water and air solenoid valves





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GEA is a global technology company with multi-billion euro sales operations in more than 50 countries. Founded in 1881 the company is one of the largest providers of innovative equipment and process technology. GEA is listed in the STOXX® Europe 600 Index. In addition, the company is included in selected MSCI Global Sustainability Indexes.

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