



GEA Laboratory homogenizers

Table-top and pilot plant machines
for your lab

Laboratory 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.



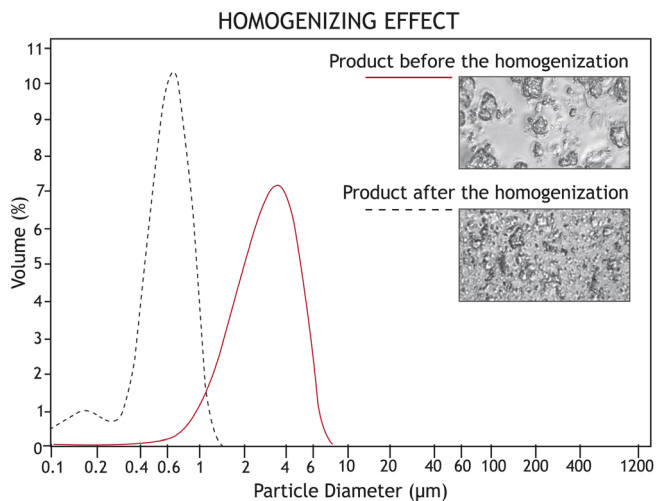
Suitable for any applications

GEA laboratory 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.

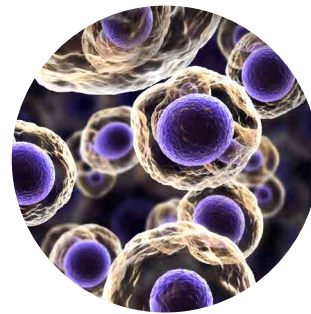
Table-top homogenizers for laboratory tests and small scale production

The PandaPLUS and the TwinPANDA are small and compact homogenizers 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



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



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.

Pony NS2006L and Panther NS3006L 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
PandaPLUS 1000	1000 bar	20 l/h
PandaPLUS 2000	2000 bar	9 l/h
TwinPANDA 400	400 bar	55 l/h
TwinPANDA 600	600 bar	30 l/h
Pony 1200	1200 bar	80 l/h
Pony 1500	1500 bar	35 l/h
Panther 1200	1200 bar	120 l/h
Panther 1500	1500 bar	50 l/h





We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

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.

GEA Italy

GEA Mechanical Equipment Italia S.p.A.

Via A.M. Da Erba Edoari, 29

43123 Parma, Italy

Tel +39 0521 965411

Fax +39 0521 242819

gea.com/contact