



# GEA Ariete Homogenizer 5200

Homogenizer & High Pressure Pump  
Technical datasheet

The Ariete series is the state-of-the-art technology for powerful reliable high pressure machines and customized solutions. The Ariete machines, compliant to EU safety rules (CE standards) and built according to EN ISO 9001:2008 Quality System, are the best fit for pharmaceutical, dairy, food & beverage, biotechnology, chemical and cosmetics industries.

## Liquid end

- High quality stainless steel and special high wear resistant materials for best mechanical and corrosion resistance performance

- 3-A and electropolished versions available
- Ball (PVB) and poppet valves (PVP) interchangeable into the same block design for maximum product handling flexibility
- Aseptic version compression block available as option, with sterile condensate packing flushing
- Various materials for pumping plungers
- Monoblock construction, up to 600 bar, or multiblock, up to 1500 bar forged high grade Duplex or Super Duplex SS alloy

## Homogenizing valve

- One stage (standard on homogenizers) with pneumatic adjustment from the machine's control panel
- High efficiency homogenizing valve NanoVALVE™, based on advanced fluid dynamics concepts, available as option
- Engineered for easy maintenance and cleaning
- Second homogenizing stage as option
- Wear parts made of tungsten carbide, ceramics as option

**GEA** engineering for  
a better world

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# GEA Ariete Homogenizer 5200

## Homogenizer & High Pressure Pump

Available up to 1500 bar, suitable for CIP and SIP, the Ariete machines can be supplied with all necessary customizations for easy integration in any process line, sanitary or aseptic. The wide range of available materials, the low running speed and linear plunger velocity allow Ariete machines to perform at their best also on abrasive and viscous product.

### Power end

- Cast iron power frame
- Heavy duty and reliable power frame housing the transmission elements
- AC motor drive
- Forced lubrication with gear pump, low oil pressure switch and oil cooling
- “V” belts drive and gearbox speed reduction unit
- Painted steel frame in soundproof execution

### Casing

- Made of polished stainless steel with noise reduction execution
- Noise level measured on 30.000 l/h at 200 bar at a distance of 1 m is  $\leq 85$  db (A)
- Easy access and maintenance with removable panels
- Fully separated liquid-end from drive end

### Plungers

- Chrome coated stainless steel
- Tungsten carbide coated stainless steel
- Solid ceramic
- HCR Chromium Carbide coated stainless steel

### Tools and spare parts

- Ordinary maintenance tools and one set of emergency spare parts supplied with the machine
- O&M manual and spare part list

### Pump valves

- High wear resistant Stellite™ alloy removable seats
- Ball type (PVB) or poppet type (PVP) in solid Stellite™
- Ceramic or tungsten carbide materials available as option

### Pressure measurement & control

- Sanitary design analog high pressure gauge
- Pressure transmitters and transducers available as option
- Overpressure relief valve installed on compression block

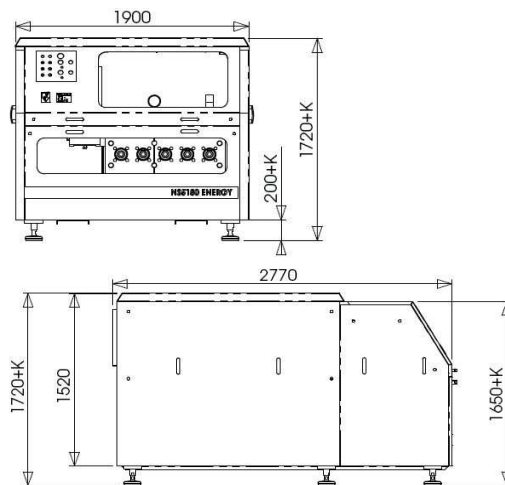
### Product line connections

- DIN 11851, Tri-Clamp™, GEA Tuchenhausen Varivent™
- Others as option upon request

### Main options on request

- High pressure pump version
- 2<sup>nd</sup> stage homogenizing valve
- Electric power board for fixed or variable capacity
- Machine automation and remote controls
- Aseptic execution
- 3-A execution, FDA approved gasket and cGMP documentation

### Dimensional drawing



### Performance

Pressure (bar)	Max Flow Rate (l/h)	Pressure (bar)	Max Flow Rate (l/h)
100	37.000	500	12.500
150	37.000	600	10.000
180	34.000	700	7.000
200	30.000	1000	5.500
250	26.000	1200	4.200
300	20.500	1500	3.000
400	15.000		

Each line refers to a different machine, which is designed for the specific maximum pressure and the specific maximum capacity.

### Design features

Number of plungers	5
Stroke	100 mm
Absorbed motor power up to	200 kW
Net weight	5800 kg
Gross weight	6500 kg
Lubricating Oil for crankcase and gearbox ISO VG 150	55 l
Lubricating/cooling water (inlet @ 14°C)*	± 800 l/h

\* Air cooling unit for gearbox oil available

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