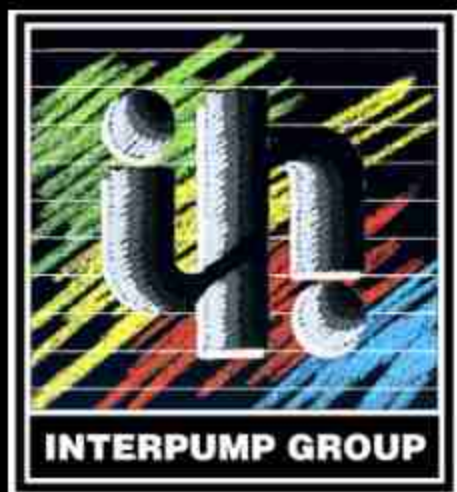




Bertoli Corporate

High Pressure
Homogenizers and
Piston Pumps

Cells disruption: 8.000 lt/h – 1.000 bar – 315 kW



German Biotechnology Customer:
Stand alone solution with variable capacity electric board and feeding system integrated in the frame of the machine

"Bertoli was chosen as able to supply the maximum flow rate in a single 5 piston machine – customer could get maximum productivity"



Cells disruption: 1.000 lt/h – 1.000 bar – 30 kW



Pharma Producer in Sweden:

- Compression head in the clean room
- Wall separation
- Machine with complete electric board (variable capacity) PLC equipped; automation integrated in a Delta V supervision according to GAMP 5

"Bertoli was selected as the most flexible supplier able to produce a tailored machine on the actual customer needs"

One more machine being supplied in the same company in USA

Pharma Solution: 120 lt/h – 1.200 bar – 7,5 kW



"Homogenization efficiency varying between 98,95-99,27 with one single passage double stage"

Pharma Customer in Russia:
Stand alone machine



Cultures: 10.000lt/h – 100 bar – 75 kW

Producer in Italy



“Bertoli was selected as the most reliable supplier in aseptic application (daily full sterilization of compression head and back chamber) and for its effort in supporting the customer in designing the best efficiency low pressure homogenizing valve”

Dairy Products: 250 lt/h – 800 bar – 18,5 kW



Dairy School, Germany

Aseptic machine for testing cleanability and aseptic milk treatment with pressure up to 800 bar

“Bertoli was chosen for its capability of proposing and designing improved hygienic solutions in aseptic environment, to be tested in R&D jobs”

Liposomes: 20 lt/h – 2.000 bar – 3 kW



Laboratory in Italy

Multipassage liposomes production for Usa market

“Bertoli was able to help the customer in solving problem in product quality by means of a ready to ship rental machine that the customer finally adopted”

Pharma Emulsion: 4.000 lt/h – 600 bar – 90 kW



Pharma Company in Sweden
Multipassage production for specific
pharma products.

“Bertoli was chosen for its capability of flexibility, quality
and site service in pharma applications”

Pharma Solution: 1.000 lt/h – 1.500 bar – 75 kW



Pharma Company in Turkey

Multipassage production for specific pharma solutions.

“Bertoli was chosen as Customer can reach highest needed homogenizing pressure in a pharmaceutical enviromental, flexibility in a vertical design”.

CNT solution: 1.000 lt/h – 1.500 bar – 55 kW



CNT Company in South Korea

High dispersion efficiency reaching nanosize of particles.

“Bertoli was chosen as operating pressure up to 1500 bar with high viscous product using innovative design of liquid end

Yeast cell: 1.000 lt/h – 1.000 bar – 37 kW



Machine supplied for US market

Oil in water emulsion: 300 lt/h – 1.500 bar – 18,5 kW



Italian Laboratory company,
Eye drop emulsion oil in water

Cell rupture: 5.000 lt/h – 1.200 bar – 250 kW



Chemical company located in Italy,
High dispersion efficiency reaching
nanosize of particles.

Water in Oil emulsion: 100 lt/h – 600 bar – 4 kW



Laboratory Machine supplied for Sweden market, ATEX execution, ZONE Machine according to EX II 2G Ex IIB T3 (Zone 1) certification

Latex product: 1.800 lt/h – 1.500 bar – 110 kW



**Latex company located in
China,**
ATEX execution, zone II

CNT solution: 100 lt/h – 1.500 bar – 7,5 kW



CNT producer in South Korea,

The supply includes a diaphragm feeding pump + 2 tubular heat exchanger

CNT solution: 500 lt/h – 1.500 bar – 37 kW



CNT producer in South Korea,

The supply includes a diaphragm feeding pump + 2 tubular heat exchanger

Pharma Process: 300 lt/h – 1.500 bar – 18,5 kW



**Propofol
Production in
India,**
Pharma
execution

Pharma Emulsion: 1.000 lt/h – 1.500 bar – 75 kW



**Propofol
Production in
Turkey,**
Pharma
execution
+Centrifugal
feeding pump
and 6 Heat
Exchanger

Food Emulsion: 150 lt/h – 600 bar – 4 kW



Food emulsion in Europe,
aseptic execution,
Pneumatic pressure
regulation + Lobe feeding
pump

Syntetic solution: 1.000 lt/h – 1.500 bar – 55 kW



Chemical Solution producer in US,

Machine in accordance with
UL/CSA, centrifugal feeding
pump + tubular Heat
exchanger

Algae process solution: 100 lt/h – 1.500 bar – 7,5 kW



Algae cell disruption in Argentina,
Pharma execution $Ra < 0,6 \mu m$

A close-up photograph of a person's chest and shoulders. They are wearing a dark-colored polo shirt. On the left side of the chest, there is a light blue logo that reads "BERTOLI" in a large, bold, sans-serif font, with "HOMOGENIZERS" in a smaller font directly below it. The person's right arm is visible in the lower-left corner, showing a tattoo on the forearm. The background is blurred and indistinct.

BERTOLI
HOMOGENIZERS

www.bertoli-homogenizers.com