



BERTOLI

Brand of
Interpump Group

HIGH PRESSURE HOMOGENIZERS AND PLUNGER PUMPS

SINCE 1974



HOMOGENIZERS AND HIGH-PRESSURE PLUNGER PUMPS



PLUS

- Hygienic design and manufacture according to MOCA regulations
- Friendly maintenance of liquid end
- Power end minimal maintenance
- Easy opening panels
- Low sound level
- Low maintenance cost thanks to integral ceramic plungers

Evolution Green: Reduction of water consumption, oil consumption and carbon footprint in the manufacture and usage of the equipment

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

| MODEL HA/PA30 | EVO LINE | | | | |
|---------------|-----------|-----------|-----------|-----------|---------|
| | 100 bar | 200 bar | 250 bar | 400 bar | 600 bar |
| 15 kW | 5.000 l/h | 2.500 l/h | 1.800 l/h | 1.100 l/h | 800 l/h |



PLUS

- Hygienic design and manufacture according to MOCA regulations
- Patented self-alignment plunger system to increase life time of plunger packing and plunger
- Poppet valves for viscous and abrasive products
- Reduced complexity of power end
- Friendly maintenance of liquid end
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Evolution Green: Reduction of water consumption, oil consumption and carbon footprint in the manufacture and usage of the equipment

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

| MODEL HA/PA32 | EVO LINE | | | | |
|---------------|------------|------------|------------|------------|------------|
| | 100 bar | 200 bar | 250 bar | 400 bar | 600 bar |
| 30 kW | 8.000 l/h | 5.000 l/h | 4.000 l/h | 2.500 l/h | 1.600 l/h |
| MODEL HA/PA33 | 100 bar | 200 bar | 250 bar | 400 bar | 600 bar |
| 45 kW | 15.000 l/h | 7.500 l/h | 6.000 l/h | 3.500 l/h | 2.500 l/h |
| MODEL HA/PA34 | 100 bar | 200 bar | 250 bar | 400 bar | 600 bar |
| 90 kW | 24.000 l/h | 15.000 l/h | 12.000 l/h | 7.500 l/h | 5.000 l/h |
| MODEL HA/PA35 | 100 bar | 200 bar | 250 bar | 400 bar | 600 bar |
| 110 kW | 35.000 l/h | 18.000 l/h | 15.000 l/h | 9.000 l/h | 5.500 l/h |
| MODEL HA/PA36 | 100 bar | 200 bar | 250 bar | 400 bar | 600 bar |
| 250 kW | 45.000 l/h | 40.000 l/h | 32.000 l/h | 20.000 l/h | 14.000 l/h |



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MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

EVO LINE

MODEL HA/PA53

400 kW

100 bar

200 bar

250 bar

400 bar

600 bar

90.000 l/h

65.000 l/h

52.000 l/h

32.000 l/h

24.600 l/h





HOMOGENIZERS AND HIGH-PRESSURE PLUNGER PUMPS



PLUS

- High volumetrical efficiency
- Innovative design of the liquid end for minimized sterilization time and to make more effective the CIP
- High reliability at full pression
- Low sound level
- Friendly maintenance of liquid end

Evolution Green: Reduction of water consumption, oil consumption and carbon footprint in the manufacture and usage of the equipment

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

STAR LINE

| MODEL MOLECOLA | 1000 bar | 1200 bar | 1500 bar |
|----------------|----------|----------|----------|
| 15 kW | 300 l/h | 200 l/h | 200 l/h |



PLUS

- High volumetrical efficiency
- Innovative design of the liquid end for minimized sterilization time and to make more effective the CIP
- High reliability at full pression
- Low sound level
- Friendly maintenance of liquid end
- Validated for nano dispersion and emulsion
- Proven for high viscous products

Evolution Green: Reduction of water consumption, oil consumption and carbon footprint in the manufacture and usage of the equipment

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

STAR LINE

| MODEL HA/PA32 | 1.000 bar | 1.200 bar | 1.500 bar |
|---------------|-----------|-----------|-----------|
| 30 kW | 700 l/h | 600 l/h | 450 l/h |
| MODEL HA/PA34 | 1.000 bar | 1.200 bar | 1.500 bar |
| 90 kW | 2.400 l/h | 2.000 l/h | 1.500 l/h |
| MODEL HA/PA35 | 1.000 bar | 1.200 bar | 1.500 bar |
| 110 kW | 3.000 l/h | 2.500 l/h | 1.800 l/h |
| MODEL HA/PA36 | 1.000 bar | 1.200 bar | 1.500 bar |
| 250 kW | 5.500 l/h | 4.500 l/h | 4.000 l/h |



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MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

STAR LINE

MODEL HA/PA53

1.000 bar 1.200 bar 1.500 bar

400 kW

8.500 l/h 7.500 l/h 6.000 l/h





TABLE TOP AND PILOT PLANT HOMOGENIZERS



ATOMO 3.0

PLUS

- User friendly
- Triplex homogenizer
- Reliability scale up from pilot to production line
- Very low noise level
- Innovative design of the liquid end for minimized sterilization time and to make more effective the CIP

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

| | | | | | |
|-----------------|---------|---------|---------|-----------|-----------|
| MODEL ATOMO 3.0 | 250 bar | 300 bar | 600 bar | 1.000 bar | 1.500 bar |
| 4 kW | 500 l/h | 400 l/h | 200 l/h | 100 l/h | 30 l/h |



ATOMO 3.0 Skid Version

PLUS

- Feeding hopper, feeding pump, tubular heat exchanger with temperature probes, stainless steel frame, 3 ways valve



QUARK

PLUS

- Minimum volume 10 ml
- Table top homogenizer
- Suitable for abrasive and viscous products
- Reliability scale up from pilot to production line
- Very low noise level

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

MODEL QUARK

2.000 bar

0,75 kW

3 l/h





☐ PUMPS FOR PRODUCT CONTAINING PIECES



☐ PX

PLUS

- Gentle handling of products containing pieces up to 30 mm
- Pumping product keeping constant solid-liquid ratios
- High volumetrical efficiency up to 80 bar

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

| | | | |
|------------|------------|------------|-----------|
| MODEL PX31 | 25 bar | 40 bar | 80 bar |
| 5,5 kW | 3.500 l/h | 3.500 l/h | 1.800 l/h |
| MODEL PX33 | 25 bar | 40 bar | 80 bar |
| 18,5 kW | 14.000 l/h | 13.000 l/h | 5.500 l/h |
| MODEL PX34 | 25 bar | 40 bar | 80 bar |
| 30 kW | 23.000 l/h | 17.000 l/h | 9.000 l/h |

☐ SELF-PRIMING PUMPS



☐ PS34

PLUS

- Self-priming
- Washing Pump
- Working Pressure up to 70 bar
- Reduced maintenance costs
- Constant and high volumetrical efficiency
- Energy Save
- Minimum impact on the product

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

| | |
|------------|------------|
| MODEL PS34 | 70 bar |
| 30 kW | 12.000 l/h |



CENTRIFUGAL PUMP

PLUS

- Designed for pumping viscous product
- Front cover removable for inspection
- Sieve internal dispersion of particles
- Propeller shaft stainless steel heat-treated

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

| MODEL BE | Power kW | 2,3 bar |
|----------|----------|-------------|
| BE23 | 5,5 | 32.000 l/h |
| BE28 | 11 | 60.000 l/h |
| BE33 | 30 | 120.000 l/h |



CHOPPER PUMP

PLUS

- Tailor made chopper pump to mince tomato and fruits
- Used to obtain a fine and regular size of the product
- Complete and homogeneous heating till the heart of all pieces
- Removable inside blades

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

| | | | |
|-------|-------|-------|------------|
| BT60L | 30 kW | 6 bar | 60.000 l/h |
|-------|-------|-------|------------|





COLLOIDAL MILL

PLUS

- High milling efficiency
- Reduction of maintenance costs
- Automatic regulation of grinding ratio
- Suitable for CIP & SIP
- Reduced complexity of the mechanical seal system

MAX POWER [kW] - MAX PRESSURE [bar] - MAX CAPACITY [l/h]

| MODELS | Power kW | 6 bar |
|--------|----------|------------|
| BMC006 | 5,5 | 3.000 l/h |
| BMC037 | 37 | 12.000 l/h |
| BMC055 | 55 | 25.000 l/h |



HIGH SHEAR MIXER

PLUS

- AISI 316L wetted parts
- AISI 304 other parts
- Single or double Mechanical seal C / SiC / EPDM Gaskets EPDM
- Std Surface finish Ra ≤ 0.8µm– optional Ra ≤ 0.5µm mirror polished for pharma application
- Different types of head available
- Optional electric board and control panel

MAX POWER [kW]

| MODEL | Power kW | Max 6 bar |
|--------|----------|------------|
| BHS006 | 0,55 | 3.000 l/h |
| BHS011 | 1,1 | 7.000 l/h |
| BHS040 | 4 | 15.000 l/h |
| BHS075 | 7,5 | 20.000 l/h |
| BHS185 | 18,5 | 25.000 l/h |
| BHS220 | 22 | 33.000 l/h |











BERTOLI

A Brand of Interpump Group

Via Giambattista Vico, 2 - 42124 Reggio Emilia- ITALY

Tel +39 0522 948011 - Fax +39 0522 948080

info@bertoli-homogenizers.com

www.bertoli-homogenizers.com