

# Leonardo Series

HIGH PRESSURE HOMOGENIZERS AND PLUNGER PUMPS SINCE 1974

## Model HA/PA53



### MODEL TABLE | MAXIMUM CAPACITY (l/h)\* | LINKED TO THE RELATED PRESSURE (bar)

MODELS	POWER kW	PRESSURE bar	150	200	250	400	600	1000	1200	1500
HA/PA53	355	CAPACITY l/h	50.000	50.000	45.000	25.000	15.500	8.000	6.000	5.000

\*Values referring to products with a max viscosity of 500Cp

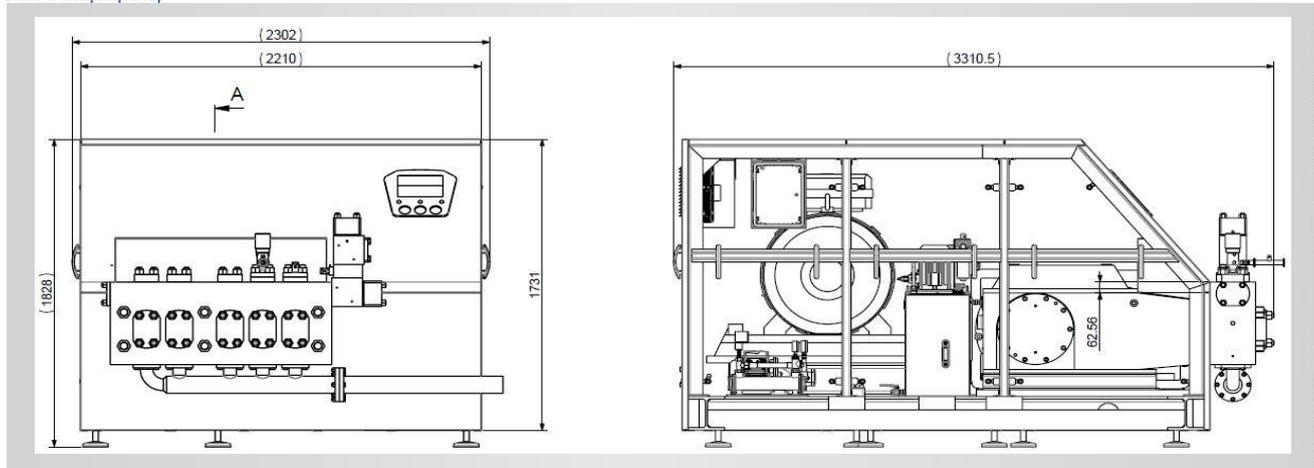
### TECHNICAL DATA

Plunger number	5
Stroke (mm)	120
Weight (Kg)	12.000
Water consumption (l/h)	330
Lubrication oil quantity (kg)	60
Connection product inlet/outlet	Socket welding $\varnothing$ i101.6 / $\varnothing$ o70



Design according to MACHINE DIRECTIVES and the HARMONIZED EUROPEAN STANDARD in force





## FEATURES

Forged block made of Duplex, SAF2205, Self-alignment patented system, 5 Plungers made of AISI630L covered by chrome

Double stage transmission system with pendular gear reducer and trapezoidal belts and pulleys

Homogenizing group with hydro-pneumatic adjustment of the pressure for a great stability and homogenizing valves in stellite™

Conical valve seat and poppet valves made of stellite 20™

Overpressure valve, flow switch alarm on water circuit

Digital pressure transmitter, 4-20 mA, with ceramic membrane

Forced lubrication system with pressure switch, cast iron crankcase with supporting roller bearings

Terminal box and control panel for local/remote control

Easy opening panels side, Friendly maintenance of the liquid end

Vibration monitoring and temperature sensor on the crankcase and on the gear box

## OPTIONS

Second stage homogenizing group

Forged multi-block made of Super Duplex, SAF2507

Aseptic execution

- Sterile water generator by means of condensed steam generator
- Patent pending sterile water generator by means of microfiltration

Design suitable with: 3A, EHEDG or PHARMA

- Low roughness and electropolished wetted parts
- cGMP certificates to add to Customer Pharma Manual

Standard or Sharp Edge Homogenizing valve with different geometries, materials availability:

- Tungsten carbide
- Zirconia Oxide
- High efficiency patented homogenizing valve "Margherita"

Seat valve made of Tungstene carbide

Sound-proof design

Pumping plungers availability:

- HVOF chromium carbide jet coat treatment
- AL2O3, Integral ceramics

Electric power board

- for Fixed or Variable capacity
- Remote Control by 4-20 mA signal
- Fully Automatic pressure control by means of PLC

Inlet and outlet connections:

- DIN 11851, Tri-clamp, SMS
- High pressure outlet
- Option upon request

Explosion proof design

