



The ROKK 4 Series high pressure homogenisers and piston pumps have excellent performance and reliability in the latest design concept.

ROKK 4 Series homogenisers / piston pumps are available with capacities from 1000 litre – 2000 litre / hour as no stage, one stage or double stage depending on application.

## Application Fields



### DAIRY PRODUCTS

Milk  
Yoghurt  
Ice Cream  
Cream  
Cheese  
Dessert



### PHARMACEUTICALS

Antibiotics  
Creams  
Antacids  
Tablet Coatings  
Liposomes  
Ointments



### FOOD AND BEVERAGE

Fruit Juices  
Ketchup / Tomato Paste  
Baby Foods  
Peanut / Hazelnut Paste  
Honey / Chocolate  
Tahina



### CHEMICALS

Paint  
Detergents  
Soap  
Waxes  
Lubrication Oil  
Paraffin Emulsions



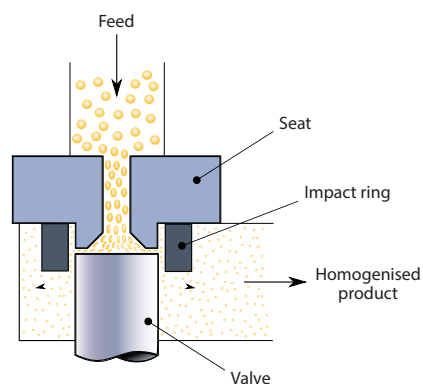
### COSMETICS

Hair Products  
Skin Creams  
Lipsticks  
Lotions  
Shampoos  
Nail Polishes



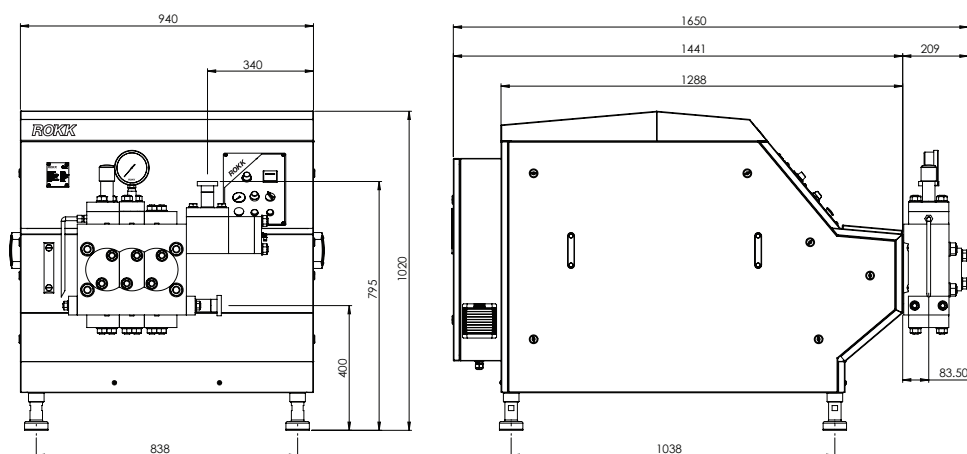
### BIOTECHNOLOGY

Proteins  
Yeast  
Vitamins  
Bacteria  
Enzymes  
Viruses



## The Principle of Homogenisation

The unhomogenised product enters the valve area at high pressure and low velocity. As the product enters the adjustable, close clearance area between the valve and the seat, there is a rapid increase in velocity with a corresponding decrease in pressure. The intense energy release causes turbulence and localised pressure differences, which tear apart the particles. The homogenised product impinges on the impact ring and exits at a pressure sufficient for the next processing stage.



## Technical Features

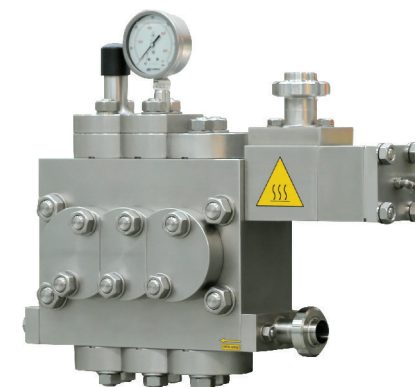
Number of Plungers	3	Lubrication Oil ISO VG 150	10 l
Weight	800 kg.	Gearreducer Oil ISO VG 320	6.7 l
Water Consumption	60 l/h	Motor Power	11 kW

## Manufacturing Location



## MonoBlock

The MonoBlock (compression head) is manufactured out of a high tensile, corrosion resistant, forged, ultra-high quality stainless steel and checked for imperfections using ultrasound equipment. The compression head for sanitary applications provides an in-line flow pattern and minimises the number of sealed areas. The block features removable top, bottom and front flanges for easy maintenance and has an ultra clean design without dead ends. The semi-spherical valves system allows smooth machine operation, for both low and high viscosity products.



## Machine Features

- Designed according to the EU safety rules (CE standards)
- Engineered, manufactured and tested according to ISO EN 9001 Quality System
- Engineered and designed for easy maintenance and cleaning (CIP and SIP)
- Suitable for abrasive and viscous products
- Ceramic coated stainless steel plungers
- Cobalt carbide material suction and delivery valves & valve seats
- Tungsten Carbide homogenising valves
- Compression Monoblock head formed by single forged block in special stainless steel
- Automatic homogenisation pressure controller with pneumatic adjustment (optional manual)
- Stainless steel construction (Frame) and electrical panel board
- Less footprint with ergonomic design
- Sanitary design analogue diaphragm high pressure gauge
- V belts drive train and gearbox speed reduction unit
- AC motor drive

## ROKK Processing Ltd

Wolvey Lodge Business Centre, Cloudsley Bush Lane, Wolvey, Leicestershire, LE10 3HB, England

T. +44 (0)1455 220 179 F. +44 (0)1455 221 314 E. [sales@machineryworld.com](mailto:sales@machineryworld.com)