



- Standard Capacity: 100 LT/H (30 GAL/H)
- Standard Pressure: 400 BAR (5.800 PSI)
- Standard Power: 2.2 kW

**HIGH-PRESSURE HOMOGENIZER  
H.P. PISTON PUMP**

## Advantages

- High capacity at low RPM, saving energy
- Efficient homogenization
- Low maintenance costs
- Easy access for maintenance
- Hygienic and ergonomic desing
- Immediate spate parts availability
- Competitive pricing and on time delivers
- Pro-active competent customer service and support
- Suitable for abrasive and high viscosity products

## Options

- 2nd stage homogenizing head
- Plungers in ceramic
- Automation and remote control
- Digital pressure gauge
- Variable frequency drive (VFD)
- Inlet pressure gauge
- Aseptic and sanitary version
- ATEX Compliance
- cGMP support and certification

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## APPLICATION

### Dairy



Milk, UHT Milk,  
Soy Milk, Oat Milk  
Yoghurt, Ayran  
Kefir  
Ice Cream  
Gelato

Labneh, Kashta  
Cream Cheese  
Mascarpone  
Desserts  
Milk Powder  
Spray Dried Products

### Food & Beverage



Fruit Juices  
Fruit Concentrate  
Aromas / Cloudifiers  
Food Emulsions  
Ketchup / Tomato Paste  
Margarine

Tahina  
Hummus  
Caramel Sauce  
Topping Sauce  
Dressing  
Peanut / Hazelnut Paste

### Chemicals and Petrochemical



Greas  
Lubricants  
Paraffin Emulsions  
Silicone Emulsions  
Wax Emulsions  
Mineral oil Emulsions

Polymer Suspensions  
Fungicides, Herbicides  
Latex  
Paint  
Detergents

### Cosmetics



Hair Products  
Beauty Creams  
Moisturizing Creams  
Lotion  
Shampoos  
Half Conditioners

Nail Polishes  
Lipsticks  
Toothpaste  
Collagen  
Perfume  
Waxes

### Pharmaceuticals



Antibiotics  
Creams  
Antacids  
Tablet Coatings  
Liposomes  
Ointments

Syrups  
Vitamins  
Proteins  
Gels  
Vaccines

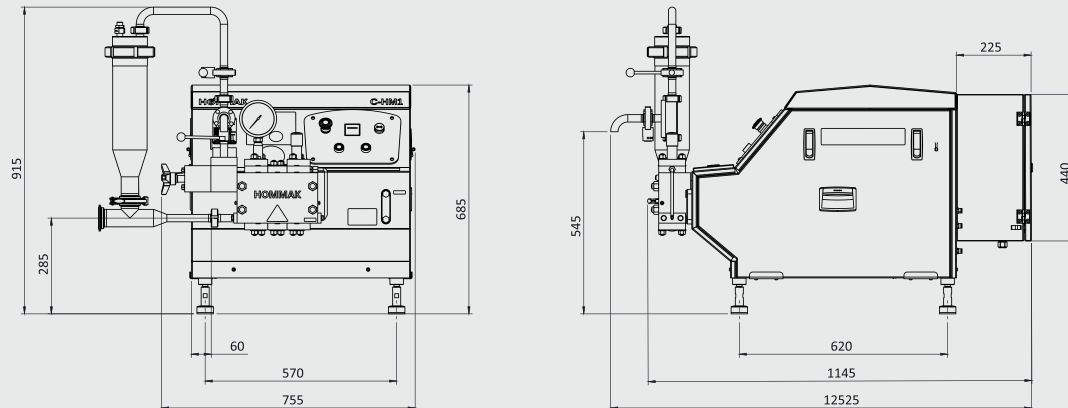
### Biotechnology



Proteins  
Yeast  
Vitamins  
Bacteria  
Enzymes  
Liposomes

Viruses  
Moss  
Probiotics  
Microorganisms  
Algae  
Celluloses

## Dimensions



LENGTH mm/in	WIDTH mm/in	HEIGHT mm/in	NET WEIGHT kg/lbs	GROSS WEIGHT kg/lbs	INLET / OUTLET
1095 43	720 28	680 27	250 551	350 771.5	DN15 DN20

Measure in mm/in

## Compression Head

- Moonblock head formed by single forged block in high quality SS alloy
- 3-D CAD design, engineered using, FEM and CFD Analysis
- INNNOTION function integrating technical R&D and technology focus.
- Surface Roughness: Ra<1.6µm, Ra<0.8µm, Ra<0.5µm (electropolished)
- Designed to avoid sharp edges and stress concentration
- Overpressure relief valve installed
- 10-year warranty against cracks and defects

## Homogenizing Valve

- Designed to be energy efficient with high stability
- Homogenization pressure pneumatic regulating system
- Tungsten carbide, cobalt carbide, Zirconium ceramic and silicon nitride, solid ceramic available as option

## Pump Valves

- Mushroom and ball type in high wear resistant SS alloy
- Stellite and tungsten carbide materials available as option
- Designed symmetrically to be used twice-once on each time

## Pump Body (Gearbox)

- High resistant resin reinforced cast iron
- Heavy duty engineered and vibrationless
- AC motor drive through V belts and pulleys with integrated gearbox

## Frame

- Thick stainless-steel material is used for heavy load

## Plungers

- Chrome coated stainless-steel alloy
- Ceramic, HCR chromium and tungsten carbide coated as option
- Solid ceramic as option

## Sealing Components

- Long Lasting Food-grade hygienic material
- EPDM, NBR, FKM, PE, PTFE, ZEDEX, PEEK, TIVAR, Kevlar Available with FDA approval

## Technical Data

Motor Power	2.2 kW
Number of Plungers	3
Lubrication Oil ISO VG 150	2.5 L
Gear Reducer Oil ISO VG 320	0.4 L
Water Consumption	40 L

## Performance

Max.Capacity		Max. Pressure	
LT/H	GAL/H	BAR	PSI
300	80	170	2500
250	70	200	2900
200	50	250	3600
150	40	300	4350
100	30	400	5800
80	20	600	7250
60	15	800	8700
50	13	1000	14500
40	10	1200	17400
25	5	1500	22000

\*Special desing & manufacturing are made for different pressures & capacities.



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