

- 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

INNOVATIVE
MANUFACTURING
Brand

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

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

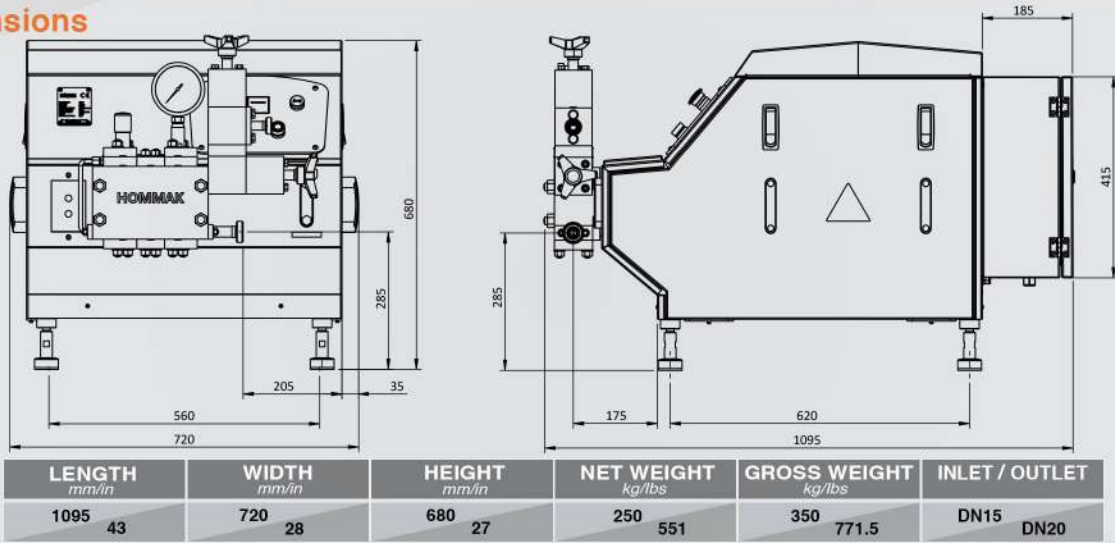
Biotechnology



Proteins
Yeast
Vitamins
Bacteria
Enzymes
Liposomes

Viruses
Moss
Probiotics
Microorganisms
Algae
Celluloses

Dimensions



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
- INNOTION 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

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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