



A Specialized Company with **Local Roots** and Global Reach

At BOS Homogenisers, we specialize in the production, supply, service of top-tier homogenizers and spare parts for Gaulin, SPX-APV and BOS machines. Founded in 1950 by Mr. Bos, our company has since become a trusted authority in the homogenization field. A specialized company with local roots and a global reach, committed to excellence in homogenisation.

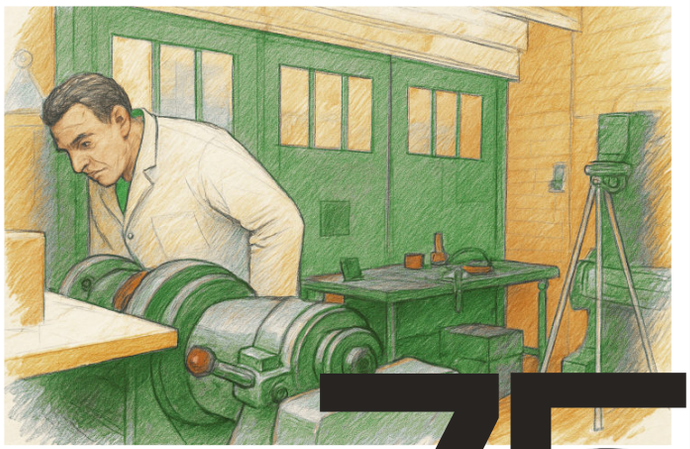
Production Excellence

With decades of technical expertise, we excel in the design, production, and continuous improvement of our product range. Our homogenizers are proudly manufactured in the Netherlands, where craftsmanship & durability are essential. By focusing on this specific niche, we can tailor our services and support to meet the precise needs of our customers across various industries, like dairy, food, pharmaceutical, chemical, and biotech sectors. Our client portfolio includes industry giants such as Nestlé, Lactalis, FrieslandCampina and Shell, reflecting our commitment to quality and reliability.

75 years of knowhow and experience

BOS at a glance

- 75 years of experience in homogenisers, high pressure pumps, spare parts and service
- Specialized in parts for Gaulin, SPX-APV & BOS
- HQ & Manufacturing in the Netherlands (EU) and Sales-Office in China
- Worldwide distribution network for supply and providing local service
- Over 15,000 parts on stock
- Complete range of BOS high-pressure homogenisers and pumps



BOS 75 years homogenisers

BOS Homogenisers was founded in 1950 by Mr. G.M. Bos in the Netherlands as “Machine Repair Shop BOS.” What started with general repairs, soon specialized in servicing Manton Gaulin homogenisers. Later on BOS became an independent supplier of spare parts and refurbished equipment.

In 1980, the company rebranded as BOS Homogenisers and later launched its own MG-series in 1995. BOS expanded internationally, with offices in China (2012), while continuing to grow its distribution network across various regions.

Celebrating 75 years of knowhow and experience.

Our Sales Offices & Extensive Network

We distribute our products through direct sales, a global network of distributors, and subsidiaries. Headquartered in the Netherlands, we have extended our reach through **regional offices in key markets**, including China, along with local representatives, support sales, service, and distribution efforts. Our distributor partners in regions like Ireland, help us serve local markets more effectively. This enables us to not only offer new homogenisers but also refurbished machines, spare parts, and support services to customers worldwide. Find our complete partner list at the end.





Our Equipment

As a manufacturer we contribute to the optimization of our customers' productivity with the BOS MG series. A complete range of 11 high pressure pumps and homogenisers, tailored to your needs.

The MG-Series at a glance

- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Machine Overview



MG2

pressures up to 425 bar
capacities 1,200 liters/hour



MG3

pressures up to 400 bar
capacities 4,000 liters/hour



MG4

pressures up to 1,400 bar
capacities 5,500 liters/hour



MG12

pressures up to 425 bar
capacities 8,400 liters/hour



MG14

pressures up to 1,400 bar
capacities 9,600 liters/hour



MG18

pressures up to 1,400 bar
capacities 14,000 liters/hour



MG30

pressures up to 1,400 bar
capacities 19,500 liters/hour



MG45

pressures up to 1,400 bar
capacities 25,000 liters/hour



MG120

pressures up to 400 bar
capacities 42,000 liters/hour



MG124

pressures up to 1,400 bar
capacities 42,000 liters/hour



MG140

pressures up to 1,400 bar
capacities 43,200 liters/hour

"We are eager to share our knowledge, so that you can enjoy a trouble-free homogenisation process."

Jeroen van Douveren,
CEO BOS Homogenisers

Machine Specifications Overview			
Type	**Liters per hour**	**Pressure in bar**	**Power (KW)**
MG2	45 - 500	140 - 800	1,9 - 2,1
MG3	180 - 3.200	90 - 1.400	6 - 10
MG4	600 - 3.600	115 - 700	10 - 13
MG12	600 - 8.500	115 - 600	22 - 24
MG14	640 - 9.600	125 - 1.400	28 - 36
MG18	1.000 - 10.000	250 - 1.250	44 - 54
MG30	4.000 - 20.500	140 - 600	74 - 80
MG45	6.000 - 25.000	150 - 1.000	100 - 120
MG120	11.000 - 42.000	130 - 600	145 - 180
MG124	10.000 - 45.000	140 - 550	154 - 190
MG140	5.000 - 43.000	170 - 1.700	190 - 210

Discover all details of the BOS MG-series at **www.boshomogenisers.com/machines** ▸

Sales Options

This is a selection of the sales options. If more options are required, please contact the BOS Sales Team of the local BOS partners.

Homogenising Parts	
1	Ball or spherical valves
2	One or two stage homogenising valve assembly
3	Hydraulic operated homogenising valve assembly
4	Material valves: Ceramic or Tungsten Carbide
5	Tungsten carbide coated plungers
6	Duplex cylinder block(s)
7	Double packed cylinder for aseptic processing
8	Pressure transducers
9	Multiple parts cylinder block

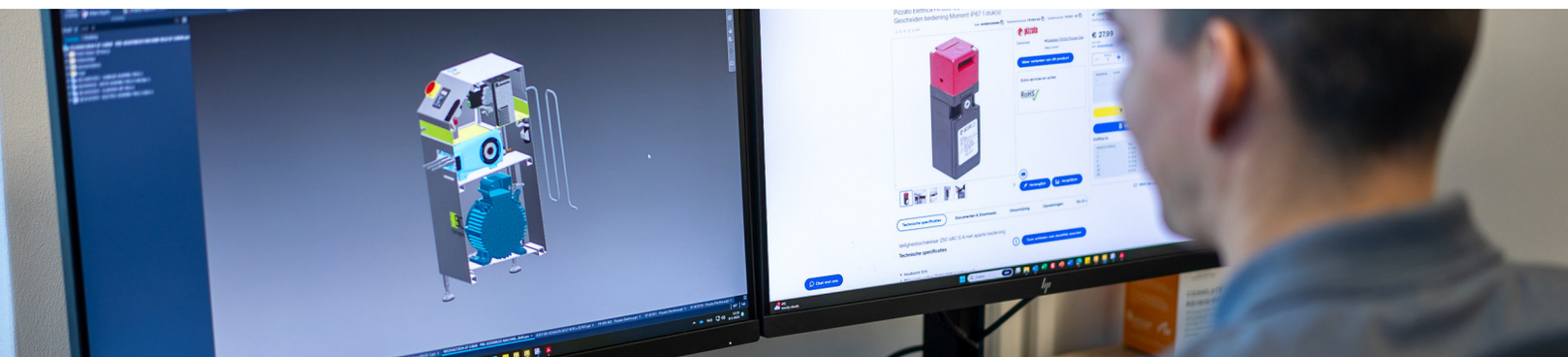
Oil System	
1	Low level alarm lubricating oil
2	Oil pressure transducer
3	Extra for digital indicator

Electrical Cabinets	
1	Electrical cabinet Siemens
2	Electrical cabinet Danfoss
3	Wiring of electronic components
4	High temperature seals

Control System	
1	Remote pressure control single or one stage
2	In combination with HVA
3	PID controller (per stage)
4	Automatic pressure control by PLC/ HMI
5	Pressure transducer indicator (Kobold)
6	Solenoid valve cooling water
7	Flow switch cooling water

Others	
1	EHEDGE execution
2	Food grade lubricants
3	High pressure welding
4	Safety valve sanitairy design
5	Air actuator for safety valve
6	Pulsatie dampers
7	Machine on wooden skids for transport
8	Export crating in wooden box

The warranty period is 24 months from the date of invoicing.



The Companies We Serve

At BOS Homogenisers, we proudly serve a global customer base spanning the **dairy, food, pharmaceutical, and chemical industries**. From milk and cream producers to food manufacturers creating sauces and beverages, we provide the tools and expertise for consistent, high-quality results.

Pharmaceutical and chemical companies rely on our high-pressure homogenisers for precise emulsification & dispersion in critical applications. With a worldwide presence and decades of experience, BOS is the trusted partner for reliable homogenization solutions, wherever you operate.



"BOS is a great company due to their fast responsiveness and delivery time of service and parts, being these points one of the reasons of their/our success. Also their robust, durable and low maintenance machines, which are getting well-known in many factories around the world."

Ricardo Velarde Luque, CEO and owner of Image S. L. in Spain

Maintenance & Unmatched Service

Our global distribution network and service point in Shanghai allow us to deliver consistent quality and worldwide support. We are dedicated to ensure you uninterrupted production through preventive maintenance, rapid response, and customized solutions. Preventing issues with homogenising machines relies on consistent maintenance. Our service **minimizes repair costs and ensures smooth, reliable performance**.

At BOS Homogenisers, we understand how costly downtime can be. That's why our 24/7 Service & Support is always available — day or night, weekend or weekday — to keep your production running smoothly. This extra service is exclusively available for all our clients in the Netherlands & Belgium.

Spare Parts Availability

We pride ourselves on offering a comprehensive range of over **15,000 spare parts readily available**, including an extensive stock of cylinder blocks. Our spare parts are compatible with APV, SPX, Gaulin, and our own BOS equipment, ensuring to quickly & efficiently provide the perfect solution.

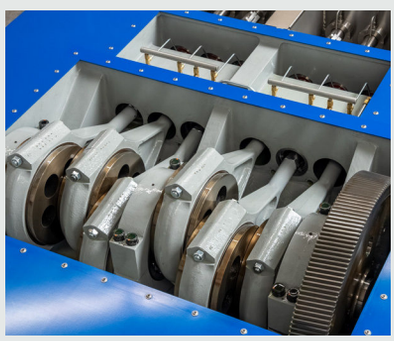
Homogenising Assembly

Crafted to ensure peak performance and unmatched durability for your homogenisation process.



Drive Assembly

It's the heart of your homogeniser, featuring robust components for smooth & efficient operation.



Cylinder Assembly

Essential for high-pressure operations, built for durability and easy maintenance



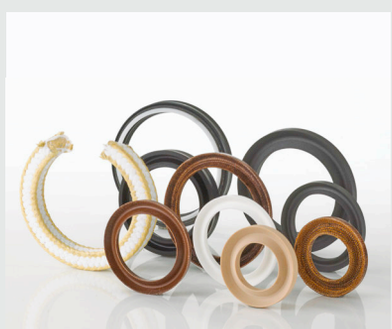
Lubrication Oil Assembly

Ensure your homogeniser runs smoothly, designed to reduce wear and tear.



Seals & Packings

Our high-quality seals and packings prevent leaks & maintain pressure, ensuring reliable operation.



Other Parts

From cooling systems to sensors, our comprehensive range of additional parts meets all your needs.



Knowledge Center

Curious about BOS Homogenisers' processes and technology? We've created short explainer videos that clearly demonstrate our innovative techniques and working methods. Go to our website and get a quick understanding on how we create quality solutions tailored to your needs: **www.boshomogenisers.com/video-media/**

MG2

high pressure homogeniser



About the machine

The MG2 is a high pressure homogeniser that supports pressures up to 1,400 bar and capacities from 40 up to 1,200 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it fully sanitary and suitable for C.I.P. This machine is especially designed for testing purposes or producing small batches.

75 years of knowhow and experience

Product at-a-glance

- Pressures up to 1,400 bar
- Capacities up to 1,200 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
150	475	1,200
200	350	900
275	260	650
400	180	450
800	80	-
1,400	40	-

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG3

high pressure homogeniser



About the machine

The MG3 is a high pressure homogeniser that supports pressures up to 400 bar and capacities up to 4000 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it fully sanitary and suitable for C.I.P. With over 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.

75 years of knowhow and experience

Product at-a-glance

- Pressures up to 400 bar
- Capacities up to 4,000 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
90	3,200	4,000
200	1,600	2,000
250	1,200	1,500
400	750	900

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG4

high pressure homogeniser



About the machine

The MG4 is a high pressure homogeniser that supports pressures up to 1,400 bar and capacities up to 5,500 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it fully sanitary & suitable for C.I.P. With 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.

75 years of knowhow and experience

Product at-a-glance

- Pressures up to 1,400 bar
- Capacities up to 5,500 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
100	3,600	5,500
200	2,000	3,000
275	1,350	2,000
400	950	1,400
800	340	-
1,400	190	-

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG12

high pressure homogeniser



About the machine

The MG12 is a high pressure homogeniser that supports pressures up to 425 bar and capacities up to 8,400 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it fully sanitary and suitable for C.I.P. With over 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.

75 years of knowhow and experience

Product at-a-glance

- Pressures up to 425 bar
- Capacities up to 8,400 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
115	6,700	8,400
200	4,000	4,800
250	3,100	3,800
425	1,800	2,200

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG14

high pressure homogeniser



About the machine

The MG14 is a high pressure homogeniser that supports pressures up to 1,400 bar and capacities up to 9,600 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it fully sanitary and suitable for C.I.P. With over 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.

75 years of knowhow and experience

Product at-a-glance

- Pressures up to 1,400 bar
- Capacities up to 9,600 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
125	7,000	9,600
200	4,600	6,000
275	3,400	4,400
450	2,000	2,600
800	1,075	-
1,400	600	-

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG18

high pressure homogeniser

About the machine

The MG18 is a high pressure homogeniser that supports pressures up to 1,400 bar and capacities up to 14,000 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it suitable for C.I.P. With over 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.



75 years of knowhow and experience

Product at-a-glance

- Pressures up to 1,400 bar
- Capacities up to 14,000 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
150	10,600	14,000
200	8,500	10,600
250	7,000	8,600
430	4,000	5,000
800	1,200	-
1,400	825	-

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG30

high pressure homogeniser

About the machine

The MG30 is a high pressure homogeniser that supports pressures up to 1,400 bar and capacities up to 19,500 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it suitable for C.I.P. With over 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.



75 years of knowhow and experience

Product at-a-glance

- Pressures up to 1,400 bar
- Capacities up to 19,500 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
150	16,000	19,500
200	12,000	14,800
250	9,600	11,800
400	6,200	7,200
800	2,050	-
1,400	1,400	-

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG45

high pressure homogeniser



About the machine

The MG45 is a high pressure homogeniser that supports pressures up to 1,400 bar and capacities up to 25,000 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it suitable for C.I.P. With over 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.

75 years of knowhow and experience

Product at-a-glance

- Pressures up to 1,400 bar
- Capacities up to 25,000 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
150	22,000	25,000
200	16,500	20,000
250	13,000	15,500
400	8,600	10,500
800	4,000	-
1,400	2,250	-

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG120

high pressure homogeniser

About the machine

The MG120 is a high pressure homogeniser that supports pressures up to 400 bar and capacities up to 42,000 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it suitable for C.I.P. With over 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.



75 years of knowhow and experience

Product at-a-glance

- Pressures up to 400 bar
- Capacities up to 42,000 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
150	36,000	42,000
200	23,000	27,500
250	19,500	23,000
400	12,800	14,500

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG124

high pressure homogeniser

About the machine

The MG124 is a high pressure homogeniser that supports pressures up to 1,400 bar and capacities up to 42,000 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it suitable for C.I.P. With over 75 years of experience, each type of our machines is designed to achieve the highest efficiency with the lowest energy consumption.



75 years of knowhow and experience

Product at-a-glance

- Pressures up to 1,400 bar
- Capacities up to 42,000 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
140	36,000	42,000
200	27,000	32,000
275	19,500	22,500
400	14,500	16,000
800	6,800	-
1,400	3,800	-

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

MG140

high pressure homogeniser

About the machine

The MG140 is a high pressure homogeniser that supports pressures up to 1,400 bar and capacities up to 43,200 liters/hour. The fully sanitary design utilises a minimum of parts and seals, which makes it suitable for C.I.P. With over 75 years of experiece, each type of our machines is designed to achieve the highest efficiency with the lowest energy consuption.



75 years of knowhow and experience

Product at-a-glance

- Pressures up to 1,400 bar
- Capacities up to 43,200 l/h
- Easy access for maintenance
- All parts are corrosion resistant
- Spare parts are worldwide available
- Unbeatable reliability, low downtime

Pressure in bar	Capacity in liters per hour	
	Ball valves	Spherical valves
150	43,200	-
200	32,400	-
275	23,400	-
400	17,400	-
800	8,200	-
1,400	5,000	-

Spherical valves our standard execution, high efficient and low noise. These valves are spring loaded, suitable for processing viscose and moderate abrasive products. **Ball valves** this option is well known for abrasive products or fluids with hard solid parts.

BOS homogenisers

H3

Hilversum Range



About the machine

The Hilversum Range of homogenizers and high-pressure pump lines delivers operating pressures of up to 400 bar, making it suitable for virtually all dairy, beverage, and food applications. Typical uses include dairy and ice-cream products, sauces, and fruit juices, as well as selected chemical, cosmetic and personal care applications.

75 years of knowhow and experience

Product at-a-glace

- Pressures up to 400 bar
- Capacities up to 2,200 l/h
- Lubrication oil cooled by air, low water consumption
- Flexible automation & electrical options
- Durable and compact stainless-steel frame
- Ultimate price-performance ratio

Capacity Range H3 (11 kW)		
Machine Type	Operating Pressure	Max Capacity
H3 - 150	150 bar	2200 l/h
H3 - 200	200 bar	1600 l/h
H3 - 250	250 bar	1200 l/h
H3 - 300	300 bar	900 l/h
H3 - 350	350 bar	900 l/h
H3 - 400	400 bar	700 l/h

Hilversum Range Homogenizers and High-Pressure Pumps lines are offered up to 400 bar total pressure which covers nearly all dairy, beverage and food applications - such as dairy, ice cream products, sauces, fruit juices - and some chemical, cosmetic and personal care applications.

BOS homogenisers

H4

Hilversum Range



About the machine

The Hilversum Range of homogenizers and high-pressure pump lines delivers operating pressures of up to 400 bar, making it suitable for virtually all dairy, beverage, and food applications. Typical uses include dairy and ice-cream products, sauces, and fruit juices, as well as selected chemical, cosmetic and personal care applications.

75 years of knowhow and experience

Product at-a-glace

- Pressures up to 400 bar
- Capacities up to 5,000 l/h
- Lubrication oil cooled by air, low water consumption
- Flexible automation & electrical options
- Durable and compact stainless-steel frame
- Ultimate price-performance ratio

Capacity Range H4 (22 kW)		
Machine Type	Operating Pressure	Max Capacity
H4 - 120	120 bar	5000 l/h
H4 - 150	150 bar	3800 l/h
H4 - 200	200 bar	3000 l/h
H4 - 250	250 bar	2600 l/h
H4 - 300	300 bar	2200 l/h
H4 - 350	350 bar	1400 l/h
H4 - 400	400 bar	1300 l/h

Hilversum Range Homogenizers and High-Pressure Pumps lines are offered up to 400 bar total pressure which covers nearly all dairy, beverage and food applications - such as dairy, ice cream products, sauces, fruit juices - and some chemical, cosmetic and personal care applications.

BOS: lower maintenance & operating costs

- **Reinforced Eccentric Shaft:** at the heart of the system is a heavy-duty eccentric shaft with oversized bearings. This robust construction minimizes mechanical stress and wear, significantly extending component lifetime and reducing replacement frequency. The larger shaft design also enables operation at lower RPM, which extends packing lifetime and reduces overall maintenance requirements.

- **Optimized Low-RPM Operation:** lower rotational speeds result in less friction, reduced wear, and lower energy consumption. This design philosophy not only increases reliability but also contributes directly to lower operating costs and longer equipment life.

- **Hydraulic Actuated Valve System:** the hydraulic homogenizing valve system delivers precise and stable pressure control with minimal adjustment requirements. Unlike pneumatic systems, no compressed air is required, reducing energy consumption while simplifying the overall system architecture.

- **Integrated Cooling Strategy:** a single cooling circuit serves both the plungers and the hydraulic unit. By integrating these functions into one efficient system, infrastructure complexity is reduced while lowering water consumption, maintenance requirements, and operating costs.

- **Lower Costs Throughout the Equipment Lifecycle**: every component is engineered for durability, efficiency, and long-term reliability. The result is a Homogeniser platform that substantially reduces operational costs compared to conventional equipment.

- **Reduced Maintenance and Downtime:** premium components and robust engineering minimize unexpected failures and reduce service interventions. In some applications, maintenance time can **be reduced by up to 50%, increasing productivity and maximizing uptime.**

- **Lower Spare Parts Consumption:** oversized bearings, reinforced shaft construction, and optimized low-RPM operation significantly reduce wear on critical components. This lowers spare parts consumption, inventory requirements, and procurement costs.

- **Reduced Energy and Water Consumption:** efficient low-speed operation combined with hydraulic actuation lowers overall energy demand. The integrated cooling concept further reduces water usage and associated treatment costs.

- **Extended Service Life and Higher ROI:** every engineering decision is focused on long-term durability and operational efficiency. The result is a longer equipment lifespan, delayed replacement investments, and a substantially higher return on investment over the full ownership period.


3200 kg

Contact



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