



EN

SuperBetsy

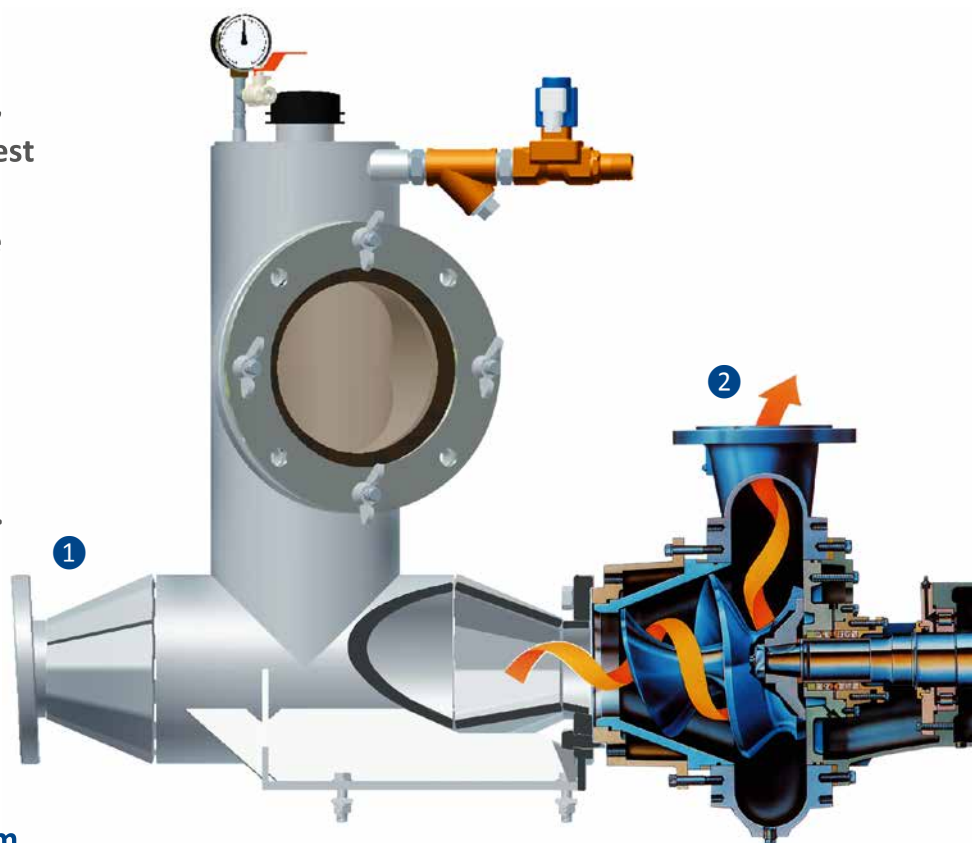
Mobile diesel-powered pump systems

The only mobile pump system with high-quality centrifugal impeller pump, diesel drive and soundproof housing.
powerful – low maintenance – climate-friendly



SuperBetsy, designed and built by specialists, for specialists

Quality and innovation, combined with the passion to continuously improve and develop our products, are the guarantors to deliver the best solution for our customers' applications. Since we combine the engineering, the main part of production as well as the entire assembly and application testing under one roof, we are able to produce our products qualitatively and technically at the highest level.



BetsyPrime electronic intake system

The absence of moving parts in the suction chamber enables excellent processing of contaminated liquids without the risk of blocking by entrained solids. The vacuum system operates only when falling below a predetermined liquid level in the vacuum chamber, ensuring minimum operating time and thus long service life.

SuperBetsy Hidrostral centrifugal impeller pump

This pump was designed to handle difficult liquids with high large particle solids content. Viscous and problematic liquids, such as contaminated bentonites and raw sewage, can be easily pumped. The Hidrostral pump is extremely powerful and the required power is significantly lower than comparable solid pumps. Its large free ball passage guarantees the user many hours of trouble-free operation with low fuel consumption. The Hidrostral pump can be equipped in different material combinations appropriate to the application.

- ① BetsyPrime electronic intake system
- ② Hidrostral centrifugal impeller pump



Developed, built and tested in our European workshops

SuperBetsy soundproof housing

All housings are made of high-quality galvanised sheet steel. This ensures a long housing service life. When designing the housing, special attention has been paid to soundproofing, making the SuperBetsy extremely quiet.

Substructure

The generous fuel tank is embedded in the robust, hot-dip galvanised base frame. The substructure is additionally designed as a holding tank to prevent contamination of the environment by liquids. Universal guides for forklift tynes contribute to safe transport of the pump unit using lifting and transport equipment.

Mechanical seals

All SuperBetsy pumps are equipped with high-quality, mechanical seals in tandem. The low-viscosity oil used as a sealing medium between the seals allows the pump to run dry without overheating the seals.



hidrostat

Profitability through efficiency is the SuperBetsy pump system's strength

Due to the high efficiency of the pump system, substantial financial savings can be achieved during its entire service life. The SuperBetsy pumps equipped with a centrifugal screw impeller also have a large ball passage. This ensures the highest degree of clogging insensitivity compared to other systems.

Conventional large-bore pumps, such as vortex or wet-suction pumps have a large free passage but do not simultaneously provide a high degree of clogging security and high efficiency. A comparison helps to clearly depict the savings attained when using a **SuperBetsy pump system**.

Operating at 1500 rpm, the SuperBetsy 150-EM requires around 3 litres of diesel per hour in operation at its best efficiency point. A diesel-powered vortex impeller con-

sumes about 7.8 litres of fuel per hour under comparable conditions but with lower efficiency. Let's assume the average price for one litre of diesel fuel is €1.20. Over a period of 167 hours (one week of continuous operation), the Vortex pump will consume about 1302 liters of fuel, which is equivalent to 1562 euros. In the same period, the SuperBetsy will consume only about 504 litres, or 604.80 euros, which corresponds to a saving of about 62%.



SuperBetsy product overview

The product overview table shows the available basic versions. On the following pages you can allocate a SuperBetsy especially for your particular application. Every SuperBetsy can attain a suction lift of up to 8.5 m. It must be noted here that the discharge head in the QH diagram is reduced by the value of the target suction head.

	Head	Output	Motor power	Operating time*	Dimensions	Noise
SB100	29 m	216 m³/h	18.1 kW	167 h ≈ 7 days	2256x1080x1534	58 dB
SB150	62 m	450 m³/h	24.2 kW – 55 kW	179 h ≈ 7½days	2586x1140x1808	62 dB
SB200	42 m	738 m³/h	44.7 kW – 55 kW	155 h ≈ 6½days	3169x1210x1964	66 dB
SB300	33 m	1116 m³/h	55.0 kW	90 h ≈ 3¾days	3174x1210x1964	66 dB

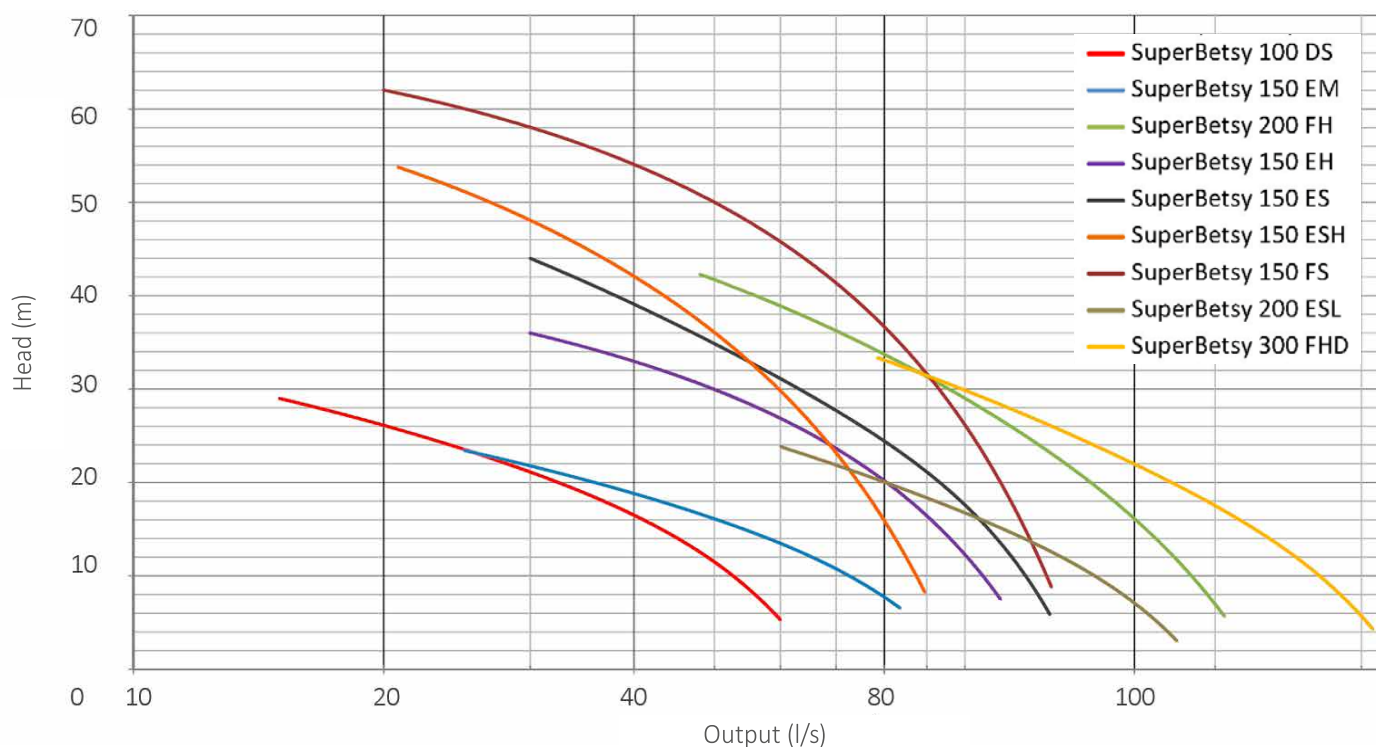
The displayed values are maximum values which may differ depending on the version in the product selection.

* Value deviating, for exact value see product details. The operating time is shown per tank filling under optimal conditions. Note: The line cross-section, especially on the suction side, must not be reduced or throttled.

The following QH curves are the **effective system curves** of the machine **at the pipe union** taking into account the internal losses of the system through the piping and check valve. This is particularly important when comparing with other products, as often only the QH curves of the built-in pump inside the machine are shown.

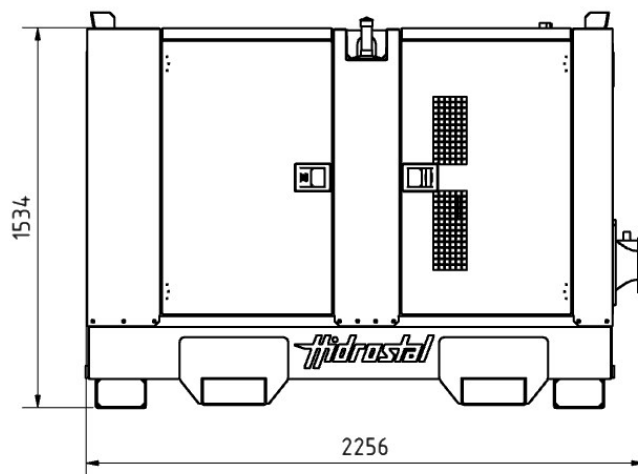
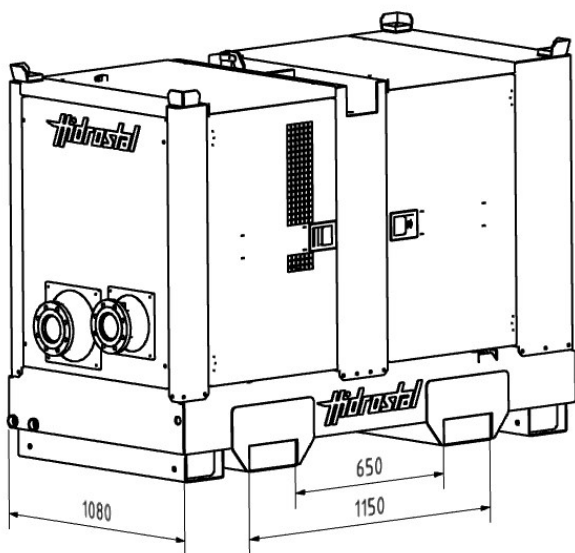
Here, system-related losses are ignored and in such a representation make the pump system appear more powerful, which is not the case, so always ask your dealer concerning this important detail.

SuperBetsy QH diagram, effective system curves



SuperBetsy SB100 DS

Characteristic value		Model	SB100 DS		
Motor	Motor power		14 kW		
	Operating time with 200 l		167 hours		
	Tank capacity		200 litres		
	E class		EU Stage 3A / US Tier 4 Interim / US Tier 4 Final "optional"		
	Sound power level		82 dB		
	Sound pressure level (7m)		58 dB(A)		
Hydraulics	Pump type		D04R-SMN(1R/3R)		
	Delivery rate max.		216 m ³ /h		
	Delivery head max.		29m		
	Free ball passage		100mm		
	DN suction/discharge side		ø100mm / ø100mm		
Dimensions	Main dimensions		2256 x 1080 x 1534		
	Attachment point(s)		1 x on top in the middle		
	Weight incl. diesel		1530 kg		
	Forklift slots		925mm		

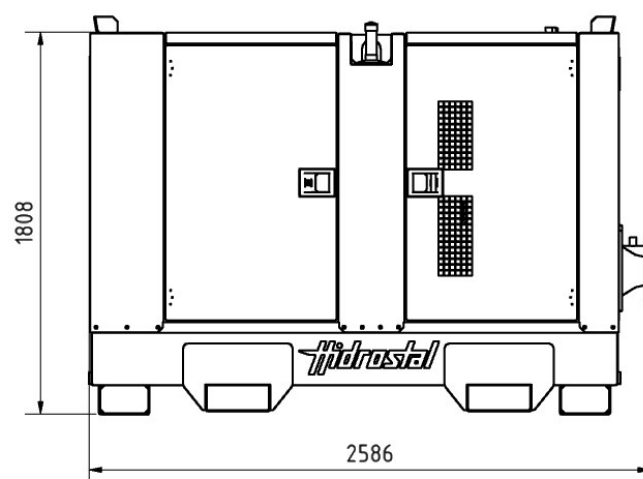
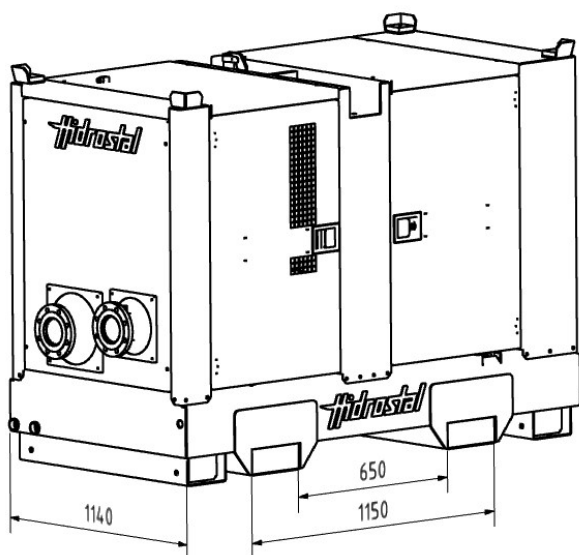


Would you like to receive more information about this product? You are welcome to request a datasheet. Your nearest Hidrostal dealer is at your disposal for further inquiries. Look at the back.

Illustration may include variants and optional extras. The table values listed can be achieved under optimum operating conditions.

SuperBetsy SB150 EM / EH / ES

Characteristic value		Model	SB150 EM	SB150 EH	SB150 ES	
Motor	Motor power		17 kW	28 kW	37 kW	
	Operating time with 500 l		179 hours	125 hours	125 hours	
	Tank capacity		500 litres			
	E class		EU Stage 3A / US Tier 4 Interim			
	Sound power level		87 dB	91 dB	92 dB	
	Sound pressure level (7m)		62 dB(A)	66 dB(A)	67 dB(A)	
Hydraulics	Pump type		E125-M0(1R/3R)	E125-H0(1R/3R)	E125-S0(1R/3R)	
	Delivery rate max.		302 m³/h	414 m³/h	450 m³/h	
	Delivery head max.		23 m	36 m	44 m	
	Free ball passage		100 mm			90 mm
	DN suction/discharge side		ø150 mm / ø150 mm	ø150 mm / ø150 mm	ø200 mm / ø150 mm	
Dimensions	Main dimensions		2586 x 1140 x 1808			
	Attachment point(s)		1 x on top in the middle			
	Weight incl. diesel		2250 kg			
	Forklift slots		900 mm			

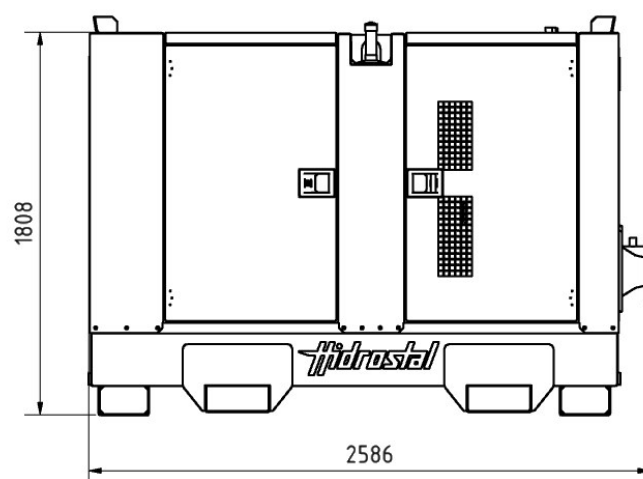
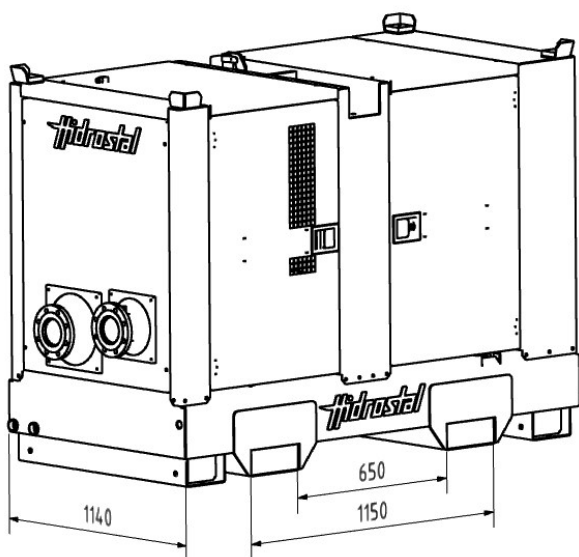


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SuperBetsy SB 150 ESH / SB200 ESL

Characteristic value		Model	SB150 ESH	SB200 ESL		
Motor	Motor power		42 kW	36 kW		
	Operating time with 500 l		154 hours	155 hours		
	Tank capacity		500 litres			
	E class		EU Stage 3A / US Tier 4 Interim			
	Sound power level		92 dB			
	Sound pressure level (7m)		67 dB(A)			
Hydraulics	Pump type		E125-SH(1R/3R)	E08-SLN(1R/3R)		
	Delivery rate max.		324m³/h	648m³/h		
	Delivery head max.		54m	24m		
	Free ball passage		75 mm	100mm		
	DN suction/discharge side		ø150mm / ø150mm	ø200mm / ø200mm		
Dimensions	Main dimensions		2586 x 1140 x 1808			
	Attachment point(s)		1 x on top in the middle			
	Weight incl. diesel		2250 kg			
	Forklift slots		900mm			

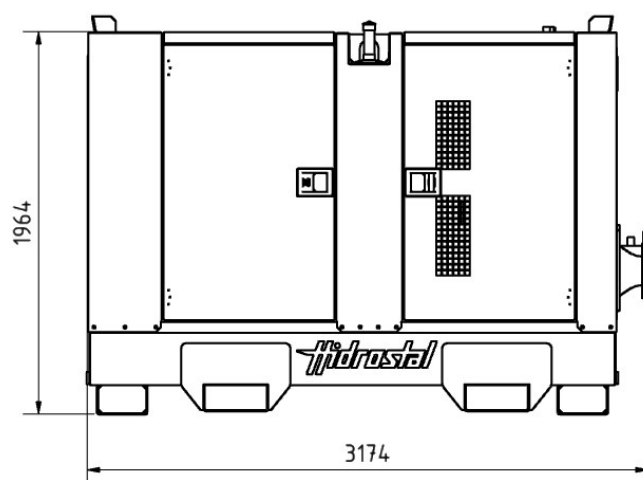
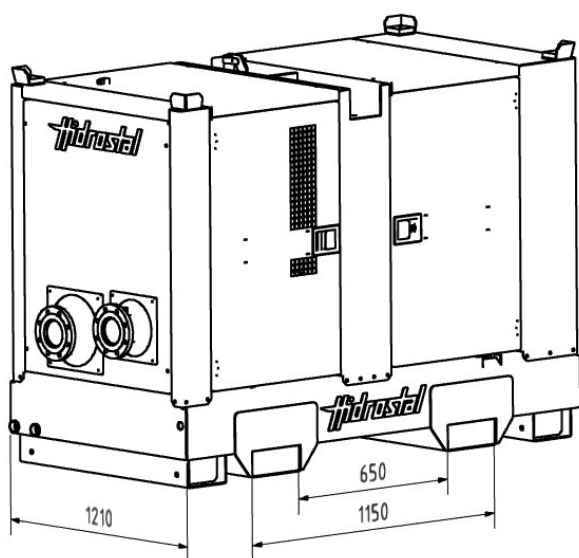


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SuperBetsy SB150 FS / SB200 FH / SB300 FHD

Characteristic value		Model	SB150 FS	SB200 FH	SB300 FHD	
Motor	Motor power		54 kW			
	Operating time with 700 l		122 hours	103 hours	90 hours	
	Tank capacity		700 litres			
	E class		EU Level 3B / US Tier 4 Final			
	Sound power level		91 dB			
	Sound pressure level (7m)		66 dB(A)			
Hydraulics	Pump type		F04K-S0(1R/3R)	F06K-H03R	F10K-HD3R	
	Delivery rate max.		450 m ³ /h	738 m ³ /h	1116 m ³ /h	
	Delivery head max.		62 m	42 m	33 m	
	Free ball passage		75 mm	115 mm	120 mm	
	DN suction/discharge side		ø200 mm / ø150 mm	ø200 mm / ø200 mm	ø300 mm / ø300 mm	
Dimensions	Main dimensions		3169 x 1210 x 1964		3174 x 1210 x 1964	
	Attachment point(s)		1 x on top in the middle			
	Weight incl. diesel		3180 kg	3130 kg	3430 kg	
	Forklift slots		900 mm			



Would you like to receive more information about this product? You are welcome to request a datasheet. Your nearest Hidrostat dealer is at your disposal for further inquiries. Look at the back.

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Design features and options

State-of-the-art control and monitoring

The operation and control of the SuperBetsy is performed via a 240mm x 181mm control panel. After entering the desired speed all other control commands are executed automatically.

Optionally, some functions of the controller can be monitored and changed online. Among other things, this function offers the possibility of locating the pump.



Description

Standard design

- Closed, with soundproof housing
- Vacuum pump 40m³/h
- Electrode set for level monitoring in automatic mode
- Digital DSE control operationally-ready configured
- Battery
- Battery voltage display and monitoring
- Diesel tank level indicator and monitoring, mechanical
- Motor oil operating pressure gauge and monitoring
- Motor temperature display and monitoring
- Speed display and monitoring
- Diesel drive pursuant current EU emission standard

On request

- Customer-specific suction and pressure flange
- Mounting on trailer
- Additional elements for level monitoring, e.g. flood probe
- Diesel drive pursuant US EPA regulations

Options

- Option pump monitoring and remote control: GSM/GPS module with antenna, electronic diesel tank level gauge and monitoring, electronic speed regulation
- Stacking corners (in order to stack several SuperBetsy units of the same housing size)
- Second battery
- Battery main switch
- Changeover valve for external diesel tank

Order / Information

- We are pleased to have sparked your interest with one of our products
- You can request further product information from your country's Hidrostal branch. You will also receive information about the current prices and the delivery time
- Please provide information about your application/ area of use

Hidrostal Pump Applications

Due to their outstanding characteristics, Hidrostal pumps are used in numerous municipal and industrial sectors. They pump the most diverse fluids and materials gently and with low pulsation. Our specialists select the suitable material combinations and individually adapt every pump to the local conditions. We ensure with this process that Hidrostal pumps are successful in difficult applications and achieve the best results with respect to performance, energy efficiency and low life-cycle costs.

- clog-free pumping
- high suction capacity
- gentle delivery due to low shear forces
- high efficiency
- stable, steep pump curve
- long service life
- low pulsation
- continuous flow proportional to the speed
- high pressure stability across a wide speed range

Wastewater

Wastewater collection
Wastewater & sewage-sludge treatment
Industrial wastewater
Manure
Ship wastewater

Industry

Paper
Cellulose & Chips
Biomass
Oil and gas
Adhesives
Paint
Plastic granulates
Solvents
Swarf and cooling lubricants
Brine

Dewatering & drainage
Bentonite
Sewer rerouting
Mine drainage
Water intake & power
Flood protection

Construction

Fruits
Vegetables
Live fish
Brewery
Molasses
Oils and pastes
Gels

Food

Hidrostal worldwide.

Pumps from Hidrostal are used all around the world. Our pumps are custom-made and are specially tailored to the needs of each location. With this procedure we achieve a high level of operational effectiveness and excellent energy efficiency. It is always worth investing in a Hidrostal pump

in the long run because our pumps are low-maintenance, they almost never clog, and their long service life is unique. Depending on the location, our clients are assisted by one of our subsidiary companies or sales partners. You will find your contact at www.hidrostal.com



Make a quick and accurate pump selection:
www.hidrostal.com/pumpselector.php

info@hidrostal.com
www.hidrostal.com

The Hidrostal logo, featuring the word "hidrostal" in a bold, italicized, blue sans-serif font. The letter 'h' is stylized with a horizontal bar extending to the left.