

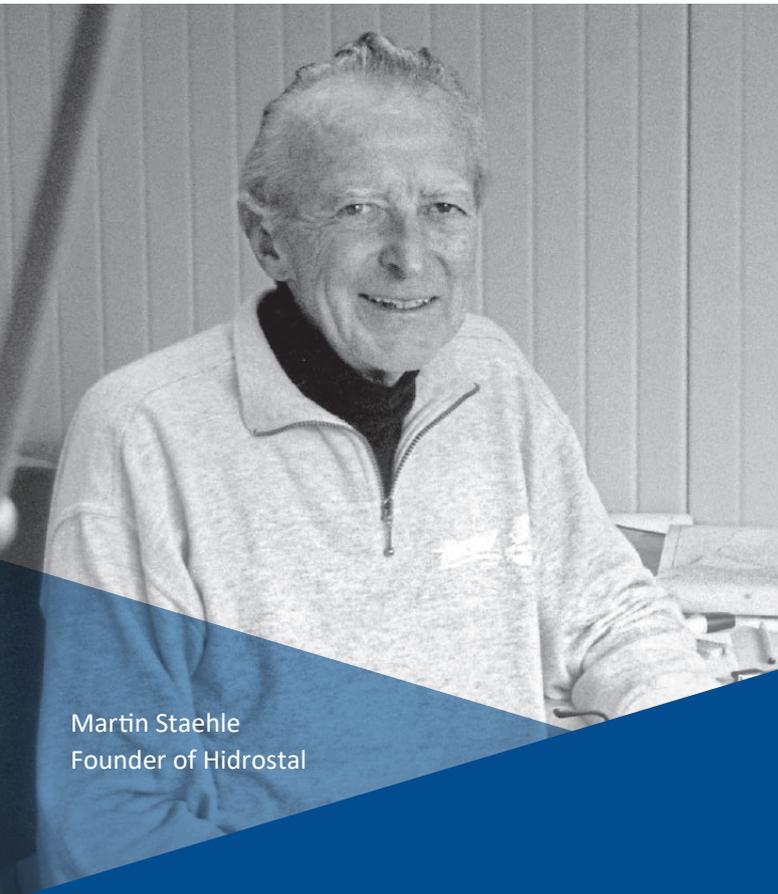


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The ORIGINAL Screw Centrifugal Impeller Pump

High Quality pumping solutions for more than 60 years.
Do you have a problem – we have the solution.





Martin Staehle
Founder of Hidrostal

Martin Staehle emigrated from Switzerland to Lima, Peru, in the early 1950s to seek economic opportunities that were not available in postwar Europe. In the mid-1960s a second facility, which is today the worldwide headquarters, was opened in Neunkirch, Switzerland.



Long-serving,
experienced employees
characterize Hidrostal.

Hidrostal – A success story for more than 60 years

The Hidrostal Screw Centrifugal Pump was originally invented and then developed in Peru by Martin Staehle, the founder of Hidrostal.

The pump was originally developed for use in the fisheries industry to transport fish from the boat for further processing without damaging them. This pump design was a tremendous success and widely imitated once the patent expired. Since then Hidrostal has continued to refine the Screw Centrifugal Impeller and today, offers tailored designs for almost all application areas.

Your partner for pump solutions

We have in-depth experience manufacturing high-quality pumps. For over 60 years, we have supplied pump systems to all branches of industry and other sectors with a focus of our work in the area of wastewater. We are committed to developing new products as well as adapting existing products to the respective usage location. In so doing, we ensure that our customers benefit from a long service life, outstanding energy efficiency and low overall life cycle costs using our pumps.

Hidrostal values

Independence

At Hidrostal, we've always believed that being independent is the best prerequisite for reaching our own goals. It allows us to make free entrepreneurial decisions for the benefit of our customers and company.

Quality

High-quality products and a continual commitment to improvement form the basis of our company. We achieved this with our qualified and motivated employees, the best possible work materials and in-depth quality controls.

Sustainability

Sustainability and protecting the environment is an integral part of Hidrostal's philosophy. This is reflected not only by our strategies and decisions as a company, but also in the values practiced by the company's owners and employees.

Production companies and sales partners

As the company has grown Hidrostal has evolved to the point where today there are three distinct types of entities within and associated with the Hidrostal Group. These include; Hidrostal production companies, Hidrostal wholly owned sales and service companies, and Hidrostal sales partners.

Hidrostal production companies

The production companies produce our various product lines, including Screw Centrifugal Pumps and submersible and immersible motors. Our production companies are located in Switzerland, Peru, Germany, Hungary, Poland, China and UK.

Hidrostal sales and service companies

Hidrostal wholly owned sales and service companies provide sales, technical support, and service for Hidrostal products. They also produce and assemble skids and pump packages and may manufacture other Hidrostal components as needed. They do not, however, manufacture the pumps and motors.

Sales partners

Our sales partners are not a part of the Hidrostal group. These are independent companies that provide sales, technical support, and service of Hidrostal products.

The Hidrostal sales strategy

In order to better serve our customers, Hidrostal is forming its own sales and service companies in key markets. Today there are 20 of these wholly owned Hidrostal sales and service companies throughout the world. The last couple years there have been new companies formed in South Africa, the Netherlands, USA, Australia, France, Austria and United Arabian Emirates. It is our plan to continue this process in other markets where we feel that it is appropriate.



Hidrostal

Different applications need different pump solutions

Hidrostal pumps reliably and efficiently solve pumping tasks in all application areas. A simple modular system allows high flexibility in combining different types of pumps for an almost unlimited number of installation options.

End Suction Volute Pumps

Most of the worldwide asked pumping tasks can be covered with the four main types of Screw Centrifugal Pumps described below. Depending on the application and general requirements, the pumps are only suitable for wet or dry installation or for both.

Pump type	Specifications
<p>Compact Pumps</p> 	<p>Hidrostal compact pumps are portable, heavy duty field units which combine usability and robustness with the superior hydraulic and solid handling performance of the screw centrifugal impeller with a free passage of 50 mm.</p> <ul style="list-style-type: none"> → Discharge Sizes: 50–80 mm (2–3") → Suction Sizes: 50–80 mm (2–3") → Head: 0.5–21 m (2–70 ft) → Flow: 0.8–25 l/s (12–400 gpm) → Power: 0.1–2.4 kW (0.1–3.2 HP) → Frequencies: 50 Hz, 60 Hz, VFD → Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex
<p>Submersible Pumps</p> 	<p>Hidrostal submersible pumps are capable of pumping wastewater and effluent with high solids content. The robust motor is cooled by the liquid in which it is submerged during continuous operation.</p> <ul style="list-style-type: none"> → Discharge Sizes: 50–700 mm → Head: up to 100 m → Flow: up to 2500 l/s → Power: 0.55–400 kW → Frequencies: 50 Hz, 60 Hz, VFD → Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex
<p>Immersible Pumps</p> 	<p>Hidrostal immersible pumps are ideal for pumping wastewater and fluids with high solids content. These pumps are capable to run with equal performance continuously dry in air, fully or partially submerged with fluid.</p> <ul style="list-style-type: none"> → Discharge Sizes: 50–700 mm (2–28") → Suction Sizes: 65–700 mm (2.5–28") → Head: 0.5–90 m (2–300 ft) → Flow: 0.5–3000 l/s (7–47500 gpm) → Power: 0.1–650 kW (0.1 HP–870 HP) → Frequencies: 50 Hz, 60 Hz, VFD → Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex
<p>Bearing Frame Pumps</p> 	<p>Hidrostal offers a wide range of versatile, energy efficient bearing frame pumps for dry installation, suitable for horizontal or vertical mounting and in combination with standard electric motors.</p> <ul style="list-style-type: none"> → Discharge Sizes: 32–700 mm (1.5–28") → Suction Sizes: 32–700 mm (1.5–28") → Head: 0.5–90 m (2–300 ft) → Flow: 0.5–3000 l/s (7–47500 gpm) → Power: 0.1–650 kW (0.1–870 HP) → Frequencies: 50 Hz, 60 Hz, VFD → Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex

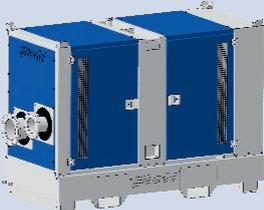
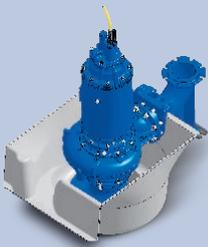
Axial Diffuser Pumps

Hidrostal's Screw Centrifugal Impeller is ideal for pumps with axial flow direction. The product range includes a large number of pump sizes.

Pump type	Specifications
<p>Axial Column Pumps</p> 	<p>Hidrostal submersible column pumps are located inside a tube chamber, which is often suspended from the top structure, and seated at the bottom of the column without any fasteners and can therefore quickly be installed and removed for inspection and service. They are designed for high flows at low heads.</p> <ul style="list-style-type: none"> → Tube chamber diameter: 400mm (16 Inch) → up to 1500mm (60 inch) → Head: up to 20 m → Flow: 6–1500 l/s → Power: 1.5–250 kW → Frequencies: 50 Hz, 60 Hz, VFD

Pump Systems

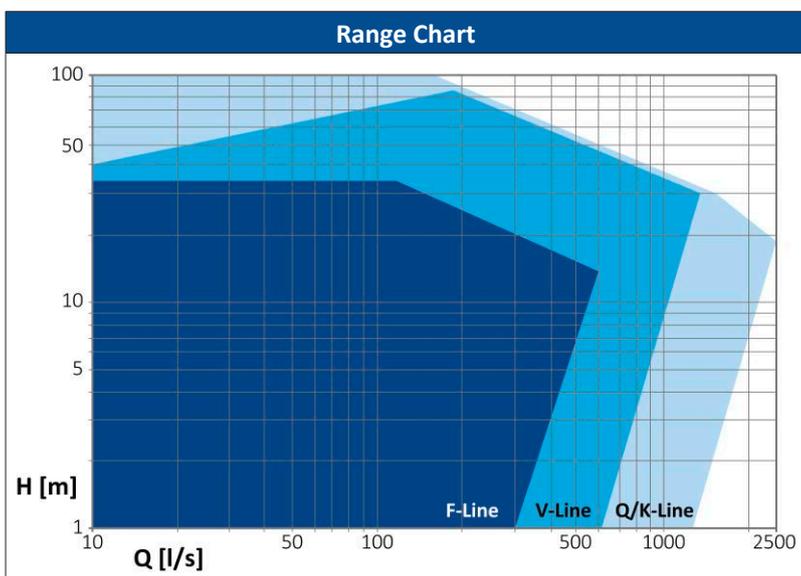
The outstanding properties of the Screw Centrifugal Pump are used in specially developed and standardized pump systems. Two of these systems are presented below.

Pump type	Specifications
<p>SuperBetsy Pumps</p> 	<p>Mobile, diesel-driven pump system enclosed in a soundproof housing using the original Screw Centrifugal Pump. The combination of a reliable, high efficient and non-clogging pump with a superior priming system that operates only when required ensures the highest available efficiency for the operator.</p> <ul style="list-style-type: none"> → Head: 29–62 m → Output: 216–1116m³/h → Power: 18.1–55 kW
<p>Prerotation Pumps</p> 	<p>Prerotation is a unique system to provide the pump user with the huge advantage of an automatic flow rate regulation in combination with a highly effective self cleaning wet-well system utilizing the Hidrostal Screw Centrifugal Pump.</p> <ul style="list-style-type: none"> → Discharge Sizes: 80–500mm (3–20") → Suction Sizes: 80–500mm (3–20") → Head: 0.5m–60 m (2–200 ft) → Flow: 2 l/s–1350 l/s (30–21000 gpm) → Power: 0.1–320 kW (0.1–430 HP) → Frequencies: 50 Hz, 60 Hz, VFD → Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex

Every pumping task requires specific pump characteristics.

Hidrostal can offer the optimal product from a range of 500 standard versions available. In addition, Hidrostal has developed customised solutions and entire pump series in close co-ordination and cooperation with its customers.

Impeller type	Application	Example
Open Q- & K-line 	Conveying granulates	Suspended cereal, crystals, flakes
	Coarse, suspended solids	Solids-containing media, unscreened wastewater and slaughterhouse waste
	Fibrous materials with a tendency to become entangled	Suspendend textiled and synthetic fibres such as nylon and wet wipes
	Solids with abrasive character	Surface water containing dirt and sand
	Viscous, muddy and gaseous liquids	Paint, glue, paper pulp, sludge from sedimentation, as well as gas-generating or flake-forming biological processes
Closed V-line 	Highly abrasive media	Liquids with large quantities of sand or chippings as well as grinding and macerated waste
Closed F-line 	Gentle conveying of voluminous materials	Sensitive materials such as fruit vegetables and live fish

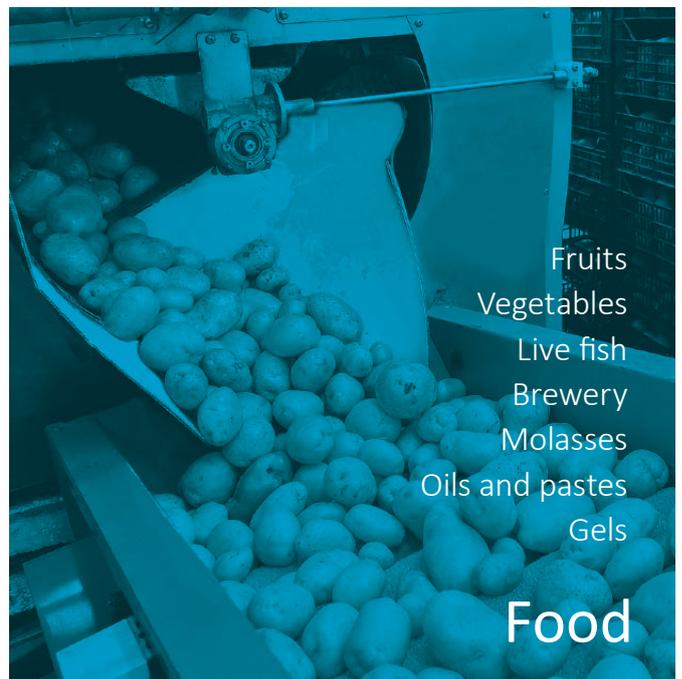
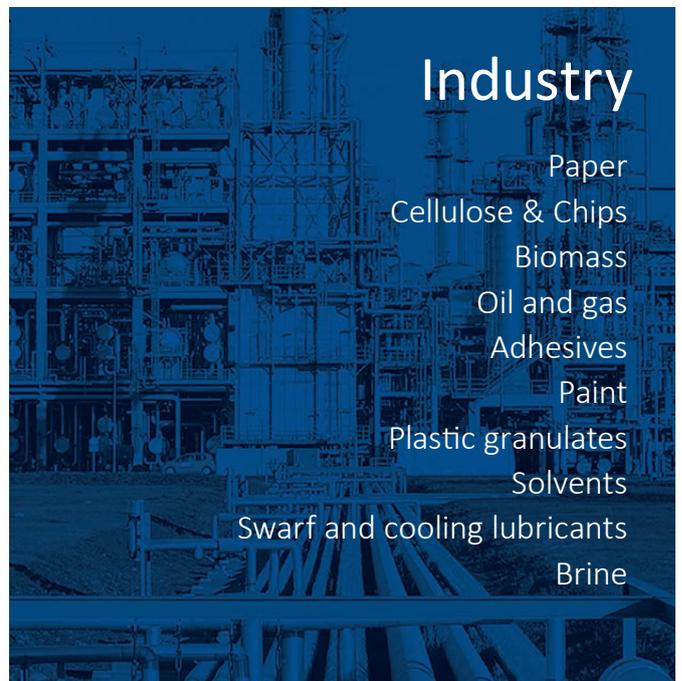


- Optimal operating point selection through more than 500 hydraulic variations
- Multiple versions
- High efficiencies
- Excellent suction capacity

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



Find your pump! Make a quick and accurate pump selection with our hidrostal.com/pumpselector.php



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



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Pioneers in Pump Technology