

# Hidrostat

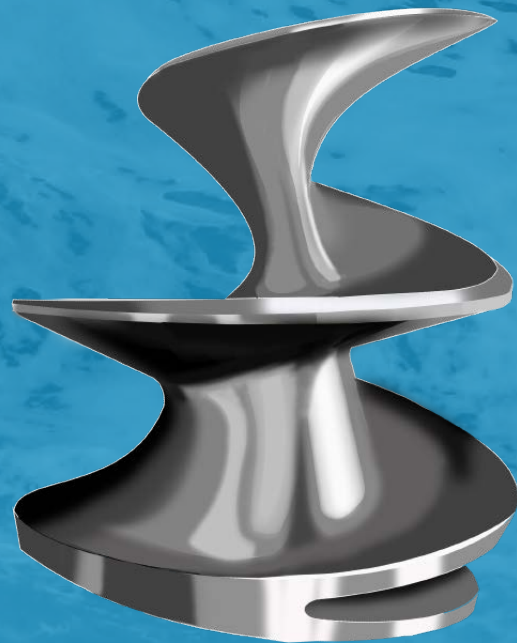


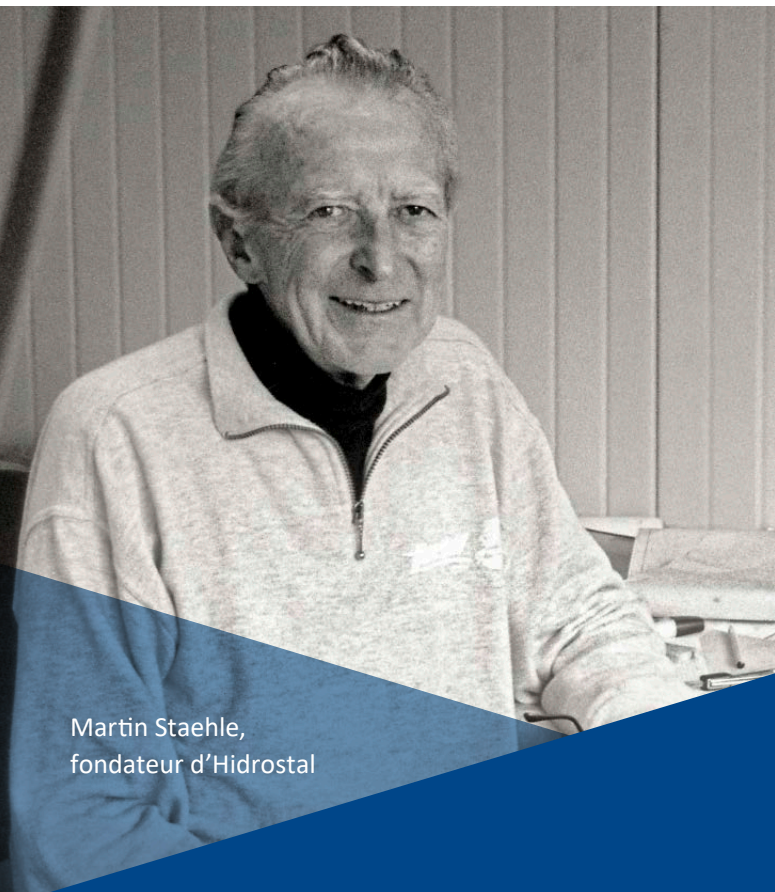
ECO TECH - Rue Boucher - 76410 CLEON France // Tel : 02.35.74.48.98 Email : info@eco-tech.prc

FR

## La pompe à roue à vis centrifuge d'origine

Des solutions de pompage de haute qualité depuis plus de 60 ans.  
Désormais directement disponibles auprès d'Hidrostat.





Martin Staehle,  
fondateur d'Hidrostral

Au début des années 1950, Martin Staehle émigre de la Suisse vers Lima (Pérou) à la recherche d'opportunités économiques encore absentes dans l'Europe d'après-guerre. Une deuxième installation s'ouvre vers le milieu des années 1960 à Neunkirch, en Suisse : il s'agit aujourd'hui du siège mondial.

Des employés expérimentés et comptant de longues années de service caractérisent Hidrostral.



# Hidrostral – Une réussite depuis plus de 60 ans

**La pompe centrifuge à vis Hidrostral a été inventée à l'origine, puis développée au Pérou par Martin Staehle, le fondateur d'Hidrostral.**

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 Hidrostral 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.

## Hidrostral values

### Independence

At Hidrostral, 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 Hidrostral'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

À mesure de la croissance de l'entreprise, Hidrostal a évolué et compte aujourd'hui trois types d'entités distincts appartenant et associés au groupe Hidrostal. Ils comprennent : les entreprises de production Hidrostal, les entreprises de vente et service en propriété exclusive d'Hidrostal et les distributeurs partenaires d'Hidrostal.

## Entreprises de production Hidrostal

Les entreprises de production fabriquent nos différentes gammes de produits, notamment les pompes centrifuges à vis et les moteurs submersibles et immersibles. Nos entreprises de production sont situées en Suisse, au Pérou, au Royaume-Uni, en Hongrie et en Chine. Les produits Hidrostal provenaient par le passé et proviennent encore de ces installations de production Hidrostal et de nulle part ailleurs.

## Entreprises de vente et de service Hidrostal

Les entreprises de vente et de service en propriété exclusive d'Hidrostal assurent la vente, l'assistance technique et le service après-vente des produits Hidrostal. Elles produisent et montent également des groupes de pompage et tout autre ensemble de pompe et peuvent fabriquer d'autres composants Hidrostal si nécessaire. Cependant, elles ne fabriquent pas les pompes et les moteurs.

## Distributeurs partenaires

Nos distributeurs partenaires ne font pas partie du groupe Hidrostal. Il s'agit d'entreprises indépendantes assurant la vente, l'assistance technique et le service après-vente de produits Hidrostal..

## Stratégie commerciale d'Hidrostal

Dans l'objectif de mieux servir ses clients, Hidrostal constitue ses propres entreprises de vente et de service pour des marchés clés. Il existe aujourd'hui dans le monde 20 entreprises de vente et de service en propriété exclusive d'Hidrostal. Au cours des 3 dernières années, 5 nouvelles entreprises ont été montées en Afrique du Sud, aux Pays-Bas, aux États-Unis, en Australie et en France. Nous prévoyons de continuer cette approche dans d'autres marchés qui nous semblent appropriés.







**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   |
|----------------------------|---|--|
| <b>Compact Pumps</b>       |   | <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 50mm.</p> <ul style="list-style-type: none"> <li>→ Discharge Sizes: 50 - 80 mm (2 - 3")</li> <li>→ Suction Sizes: 50 - 80 mm (2 - 3")</li> <li>→ Head: 0.5 - 21 m (2 - 70 ft)</li> <li>→ Flow: 0.8 - 25 l/s (12 - 400 gpm)</li> <li>→ Power: 0.1 - 2.4 kW (0.1 - 3.2 HP)</li> <li>→ Frequencies: 50 Hz, 60 Hz, VFD</li> <li>→ Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex</li> </ul>         |
| <b>Submersible Pumps</b>   |  | <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"> <li>→ Discharge Sizes: 50 - 700 mm</li> <li>→ Head: up to 100 m</li> <li>→ Flow: up to 2500 l/s</li> <li>→ Power: 0.55 - 400 kW</li> <li>→ Frequencies: 50 Hz, 60 Hz, VFD</li> <li>→ Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex</li> </ul>   |
| <b>Immersible Pumps</b>    |  | <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"> <li>→ Discharge Sizes: 50 - 700 mm (2 - 28")</li> <li>→ Suction Sizes: 65 - 700 mm (2.5 - 28")</li> <li>→ Head: 0.5 - 90 m (2 - 300 ft)</li> <li>→ Flow: 0.5 - 3000 l/s (7 - 47500 gpm)</li> <li>→ Power: 0.1 - 650 kW (0.1 HP - 870 HP)</li> <li>→ Frequencies: 50 Hz, 60 Hz, VFD</li> <li>→ Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex</li> </ul> |
| <b>Bearing Frame Pumps</b> |  | <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"> <li>→ Discharge Sizes: 32 - 700 mm (1.5 - 28")</li> <li>→ Suction Sizes: 32 - 700 mm (1.5 - 28")</li> <li>→ Head: 0.5 - 90 m (2 - 300 ft)</li> <li>→ Flow: 0.5 - 3000 l/s (7 - 47500 gpm)</li> <li>→ Power: 0.1 - 650 kW (0.1 - 870 HP)</li> <li>→ Frequencies: 50 Hz, 60 Hz, VFD</li> <li>→ Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex</li> </ul>                     |




**Find your pump!** Make a quick and accurate pump selection with our [www.hidrostal.com/pumpselector.php](http://www.hidrostal.com/pumpselector.php)




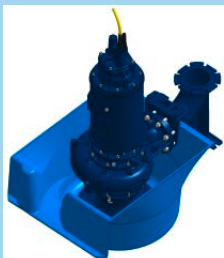
## Axial Diffuser Pumps

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><b>Axial Clumn Pumps</b></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"> <li>→ Tube chamber diameter: 400 mm (16 Inch)</li> <li>→ up to 1500 mm (60 inch)</li> <li>→ Head: up to 20 m</li> <li>→ Flow: 6 - 1500 l/s</li> <li>→ Power: 1.5 - 250 kW</li> <li>→ Frequencies: 50 Hz, 60 Hz, VFD</li> </ul> |

## 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><b>SuperBetsy Pumps</b></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"> <li>→ Head: 29 - 62 m</li> <li>→ Output: 216 - 1116 m<sup>3</sup>/h</li> <li>→ Power: 18.1 - 55 kW</li> </ul>   |
| <p><b>Prerotation Pumps</b></p>  | <p>Prerostal 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"> <li>→ Discharge Sizes: 80 - 500 mm (3 - 20")</li> <li>→ Suction Sizes: 80 - 500 mm (3 - 20")</li> <li>→ Head: 0.5m - 60 m (2 - 200 ft)</li> <li>→ Flow: 2 l/s - 1350 l/s (30 - 21000 gpm)</li> <li>→ Power: 0.1 - 320 kW (0.1 - 430 HP)</li> <li>→ Frequencies: 50 Hz, 60 Hz, VFD</li> <li>→ Materials: Cast Iron, Ductile Iron, Hi-Chrome, Stainless Steel, Duplex</li> </ul> |

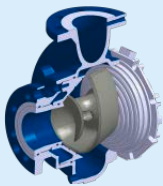





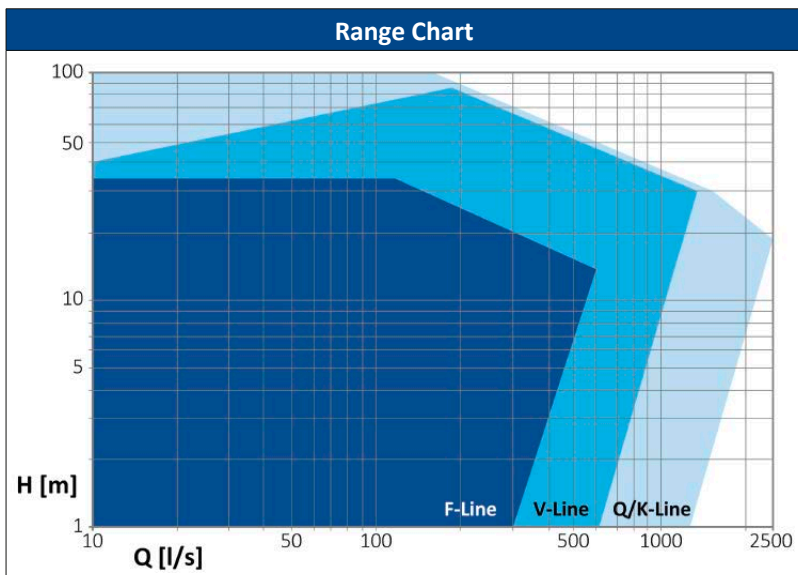
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# Every pumping task requires specific pump characteristics.

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<br><b>Q- &amp; K-line</b> | <br>Conveying granulates<br>Coarse, suspended solids   | Suspended cereal, crystals, flakes<br>Solids-containing media, unscreened wastewater and slaughterhouse waste  |
|                                | <br>Fibrous materials with a tendency to become entangled<br>Solids with abrasive character<br>Viscous, muddy and gaseous liquids | Suspended textiled and synthetic fibres such as nylon and wet wipes<br>Surface water containing dirt and sand<br>Paint, glue, paper pulp, sludge from sedimentation, as well as gas-generating or flake-forming biological processes |
| Closed<br><b>V-line</b>        | <br>Highly abrasive media  | Liquids with large quantities of sand or chippings as well as grinding and macerated waste   |
| Closed<br><b>F-line</b>        | <br>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

# Applications des pompes Hidrostal

En raison de leurs caractéristiques remarquables, les pompes Hidrostal sont utilisées dans de nombreux secteurs municipaux et industriels. Elles pompent en douceur, avec une faible pulsation, les fluides et les matières les plus variés. Nos spécialistes sélectionnent les combinaisons de matériel appropriées et adaptent séparément chaque pompe aux conditions locales. Avec cette approche, nous assurons la réussite des pompes Hidrostal dans des applications difficiles et nous obtenons de meilleurs résultats en termes de rendement, d'efficacité énergétique et de réduction des coûts de cycle de vie.

- pompage sans bourrage
- haut débit d'aspiration
- refoulement en douceur grâce aux faibles forces de cisaillement
- rendement élevé
- courbe caractéristique stable et raide
- longue durée de vie
- faible pulsation
- refoulement continu, proportionnel à la vitesse
- grande stabilité de pression sur une large plage de vitesse

## Eaux usées

Collecte des eaux usées  
Traitement des eaux usées et boues  
Eaux usées industrielles  
Fumier  
Eaux usées de navires

## Industrie

Papier  
Cellulose et copeaux  
Biomasse  
Pétrole et gaz  
Adhésifs  
Peinture  
Granulés plastiques  
Solvants  
Copeaux et lubrifiants de refroidissement  
Eau de mer

Assèchement et drainage  
Bentonite  
Réacheminement d'égouts  
Drainage de mine  
Prise d'eau et énergie hydraulique  
Protection contre les inondations

## Construction

Fruits  
Légumes  
Poissons vivants  
Brasseries  
Mélasses  
Huiles et graisses  
Gels

## Aliments



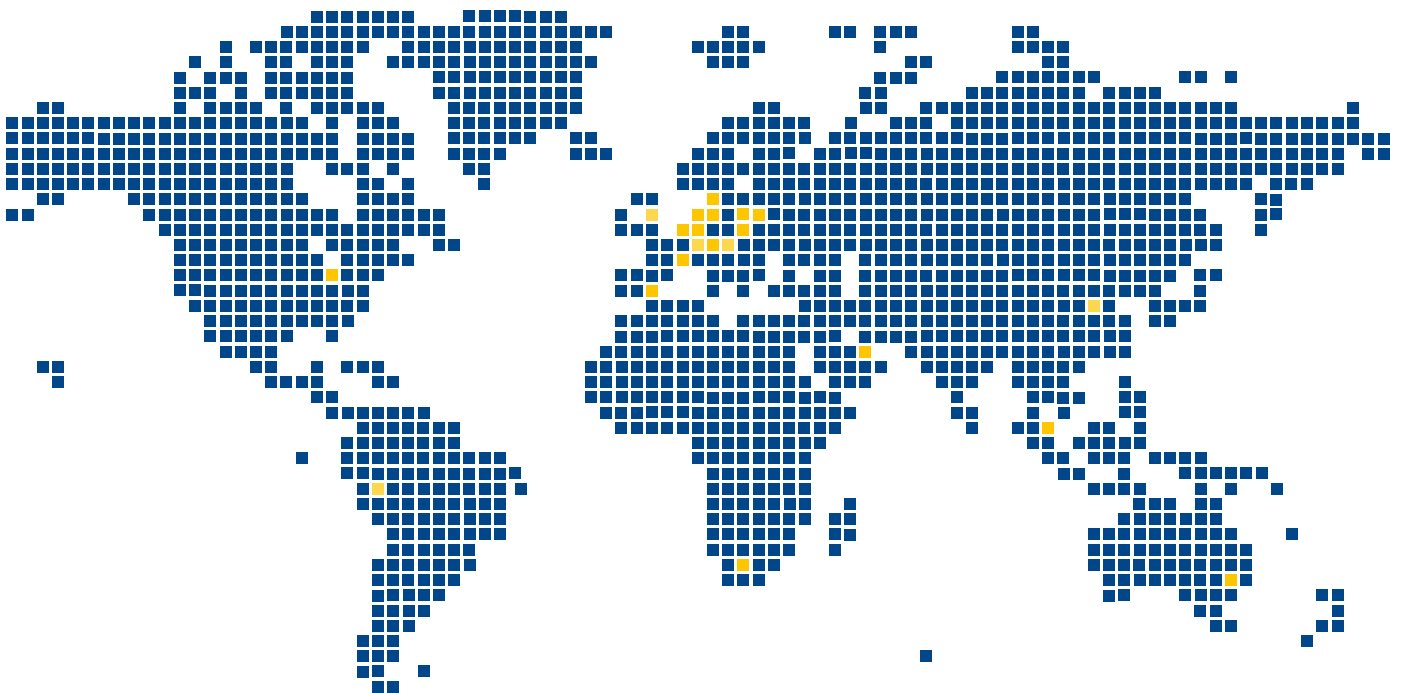
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# Hidrostal worldwide.

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](http://www.hidrostal.com)



Make a quick and accurate pump selection:  
[www.hidrostal.com/pumpselector.php](http://www.hidrostal.com/pumpselector.php)

## Découvrez ce matériel de pompage chez :



ZAC du Moulin  
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Email : [info@eco-tech.pro](mailto:info@eco-tech.pro)

## [WWW.ECO-TECH.FR](http://WWW.ECO-TECH.FR)

Au service de votre matériel de pompage

[info@hidrostal.com](mailto:info@hidrostal.com)  
[www.hidrostal.com](http://www.hidrostal.com)

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