



**YOUR  
PARTNER  
FOR THE  
ZERO-  
CARBON  
TRANSITION**

**SVANEHØJ**



# POWERING A BETTER FUTURE

The accelerating climate changes call for a complete transformation from fossil fuels to clean and renewable energy types. At Svanehøj, we take pride in having the knowledge, the pump solutions, and critical components to develop a safe and fast transition.

Temperatures are rising. Sea ice is melting faster than ever before. Storms and droughts are becoming more and more severe. Already experiencing the consequences of climate change, we have to turn things around.

As a result, the shipping industry, which accounts for 80% of all world trade, is now making the most swift and pervasive measures to speed up decarbonization.

Being a long-trusted industry partner in pumping solutions for fuel and energy cargo supply, we are set to make a difference. In fact, we are already down the path.

We have the knowledge, the competencies, and adaptable solutions to support a fast and full transition to carbon-neutral maritime fuels, including ammonia, hydrogen, and synthetic carbon-based electro-fuels, and to carbon capture & storage.

As a green transition player, we will be committed to all types of sustainable solutions within liquid fluids – both on sea and land. Simultaneously, we will strive to be a role model for employees, partners, and our local community by continuous improvement of working conditions and taking responsibility for the impact we make through our business.

It's all a matter of powering a better future.

We are born at sea and have close to 100 years of experience living up to stringent production requirements for pumps operating under the most demanding conditions.



We provide day-to-day services, and we work with customer centricity in mind. We are problem solvers and we gladly meet challenges. We handle every situation in a solution-oriented manner, and we always keep your individual customer preferences in mind.

#### Part of Svanehøj Group

Svanehøj Group consists of the two wellknown pump companies Svanehøj and Hamworthy Pumps and has three main offices in Denmark, Singapore and the United Kingdom supported by a global sales and service network. At Svanehøj our goal is to be your preferred provider of pump solutions.

## At your service

At Svanehøj, we design, manufacture and supply a wide range of services for electrical driven, deepwell cargo pump solutions. Our pumps solutions cover mission-critical applications, including offloading of various liquefied gases (LNG, LPG, ethane etc.) and chemical tankers, fuel gas handling, and liquids pumped at offshore units.

With our extensive experience in the marine sector, we believe in working closely with our customers and strive to build long-standing relationships so that we can best determine solutions that suit our customers' needs and demands. Our employees are highly educated, experienced and possess the necessary technical know-how to advise customers.

#### Agile sales department

To ensure flexibility and fast service and guarantee that we provide the right solution to meet our customers' challenges, our sales team maintains an ongoing market intelligence and advises customers on the best solution fit to meet all technical requirements and details needed.

#### Solution-oriented project department

Our experienced project department handles the complex challenges or changes to requirements, which often occur while ships are under construction. Their main task is to assist our customers in the best way possible, be solution-oriented, and adapt solutions to suit any challenges that a ship-owner or a shipyard may encounter during a project. We are also happy to provide our customers with on-site training on how to use their pumps optimally.

Our organisation is flexible, solution-oriented and able to provide the right technical solutions to translate our customers' needs into the most valuable results. We work with a commercial mindset to support our customers and believe in transparency throughout the entire value chain, from sales, manufacturing and project realisation to service and aftersales.



## DW Gas pumps – the proven and reliable choice

At Svanehøj we have many years of experience designing, manufacturing, and maintaining high-quality deepwell gas pumps. Our know-how is based on thoroughly tested, well-proven, and reliable design and technology. Meaning low operating expenses and thus cost reductions, long-term durability, and a minimized risk of operational failure for our customers.

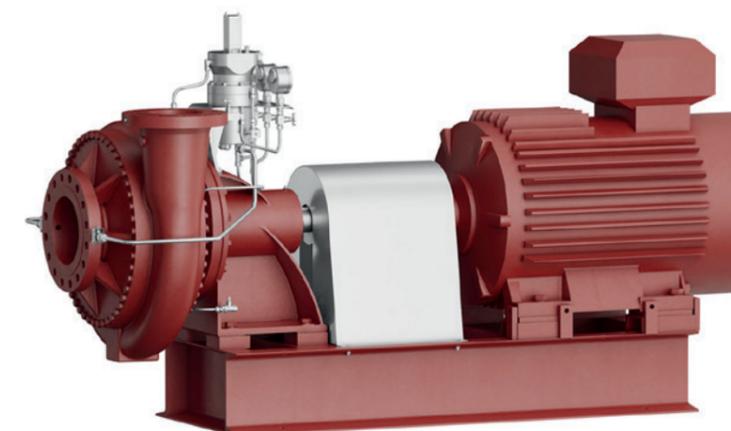
Svanehøj is the reliable choice, and our deepwell gas pumps handle all types of cargo at all temperatures and gravities without any component changes, offering potentially huge cost savings. More than 1100 gas carriers worldwide already have been equipped with more than 7000 pumps deepwell and booster pumps from Svanehøj.

Our dedicated project team aim to construct all our pump solutions based on the customer situation to ensure that our customers get the correct pump design to do the job, consequently improving and optimizing the overall user experience. Tailoring the pump solutions for any vessel, from the smallest fully pressurized push barges and dedicated CO<sub>2</sub> carriers to the largest fully refrigerated VLGCs and VLECs.

When choosing deepwell gas pumps from Svanehøj you are guaranteed superior quality, proven reliability, high levels of safety, technical know-how, excellence in delivery, and lifetime support.

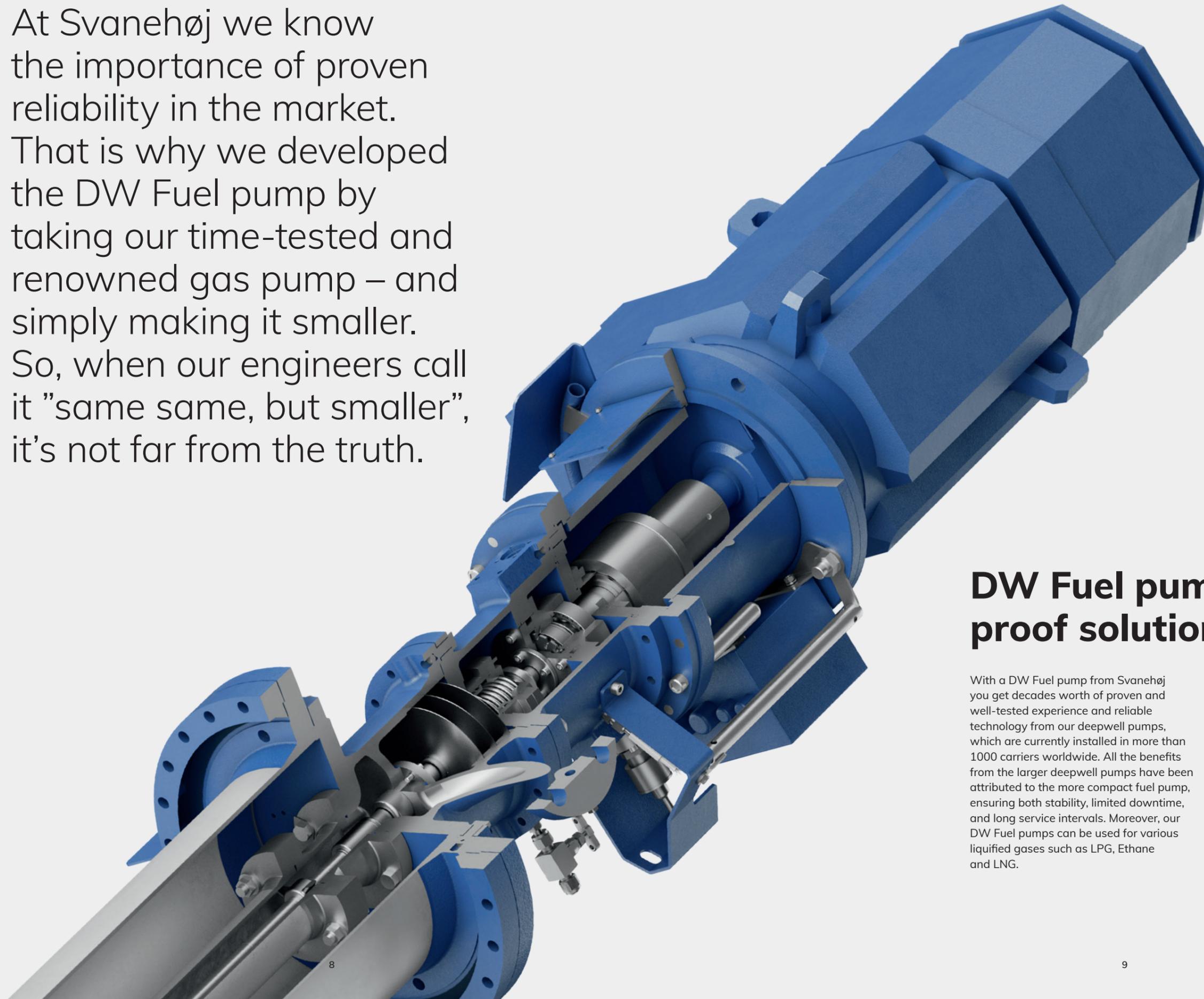
### Shaft sealing system for maximum leak protection

Svanehøj's automatic pressurised shaft sealing system is designed for maximum sealing security. The system features a double mechanical seal and a pressure booster where the sealing oil is put under pressure both by the cargo tank and the spring. This ensures that the sealing chamber pressure is always higher than the cargo tank, for maximum leak protection and interdependent on any adjustments by the crew.



Booster pump.

At Svanehøj we know the importance of proven reliability in the market. That is why we developed the DW Fuel pump by taking our time-tested and renowned gas pump – and simply making it smaller. So, when our engineers call it "same same, but smaller", it's not far from the truth.



## DW Fuel pump – the future proof solution

With a DW Fuel pump from Svanehøj you get decades worth of proven and well-tested experience and reliable technology from our deepwell pumps, which are currently installed in more than 1000 carriers worldwide. All the benefits from the larger deepwell pumps have been attributed to the more compact fuel pump, ensuring both stability, limited downtime, and long service intervals. Moreover, our DW Fuel pumps can be used for various liquified gases such as LPG, Ethane and LNG.

**5-year service interval**  
The Svanehøj DW Fuel pump is designed as a hermetically sealed pump without any sophisticated bearings or exotic materials, using standard ball bearings that ensure a long service life. Service intervals are 25,000 operating hours or every five years.

# Product and chemical – a customized and cost-effective solutions

Svanehøj's deepwell cargo pump system for product and chemical tankers is one of the most reliable, flexible and cost-effective solutions on the market.

When Svanehøj installs a deepwell cargo pump system for product and chemical tankers, our extensive experience and know-how help ensure the safe offloading of a wide range of liquid cargos, and our pumps can be combined into high-quality deepwell cargo pump systems, powered by quiet and efficient electric drives that are quick and easy to install.

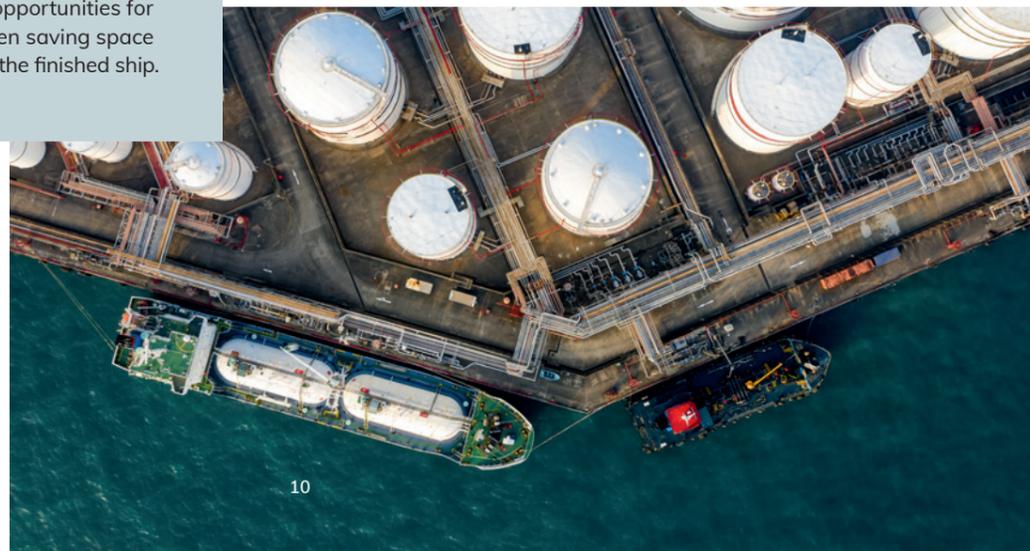
Every component of the deepwell cargo pump system is designed for a long operational life.

The system has proven reliability and requires minimal maintenance, while ensuring safe and user-friendly operation.



Over the span of nearly 100 years, Svanehøj has developed a time-tested pump technology for all types of vessels and all types of cargo.

Along with our deepwell cargo pump system, we offer a wide range of optional solutions which provide opportunities for customised solutions, often saving space and reducing the price of the finished ship.



# Offshore – safe and reliable in the toughest condition

With a deepwell offshore process and cargo pump from Svanehøj, you get high performance and reliability in well-proven and robust design with more than 15 years of proven track records in the offshore industry.

We have only one purpose when you are our customer: finding an ideal solution that best suits your needs. We can do this because our organisation employs competent people who know what is going on in the market, and who are there for our customers, when needed. You will be met with the right resources at the right time throughout the pump's life cycle:

**From the sales and project phase to the product installation and subsequent servicing.**

At Svanehøj, we have extensive experience in going through customers' specifications and finding well-proven solutions which provide safety and reliability. At this stage, we focus on capital expenses to make sure that the solution is cost-effective, too.

If we are included in the early stages of the project phase, we will be able to optimise capital expenses and save up to a double-digit percentage using value engineering.

Svanehøj's deepwell offshore process and cargo pumps cover the entire range of capacities — regardless of the medium. The same well-proven, reliable design is used for all pumps, from 15 kW to 700 kW. This also ensures that the same methodology can be used for the maintenance of all pumps.

Svanehøj's deepwell offshore process and cargo pumps are safe and reliable, even in the toughest conditions.



## Service Solutions

Svanehøj Service Solutions offers end-to-end services for cargo pumps, compressors, valves and instrumentation – no matter technology or origin of manufacturer. Backed up by experienced specialists and unique competences – all in one place – you will always be able to rely on the right help at the right time.

- provides all services for gas, product and chemical carriers
- provides world wide services and availability 24/7/365
- guarantees high quality in services and the subsequent documentation
- gives you fast response time in relation to unexpected breakdowns
- is approved by the Japanese Customs Authorities and can, as one of few service suppliers in the world, get calibration certificates approved directly with the Japanese authorities
- Burckhardt Compression certified service company for Laby®-Marine compressors



Get all the operational support you need and optimise the operating hours with competent advice, service, and – not least – genuine spare parts in the high quality you know and expect from our pumps.

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