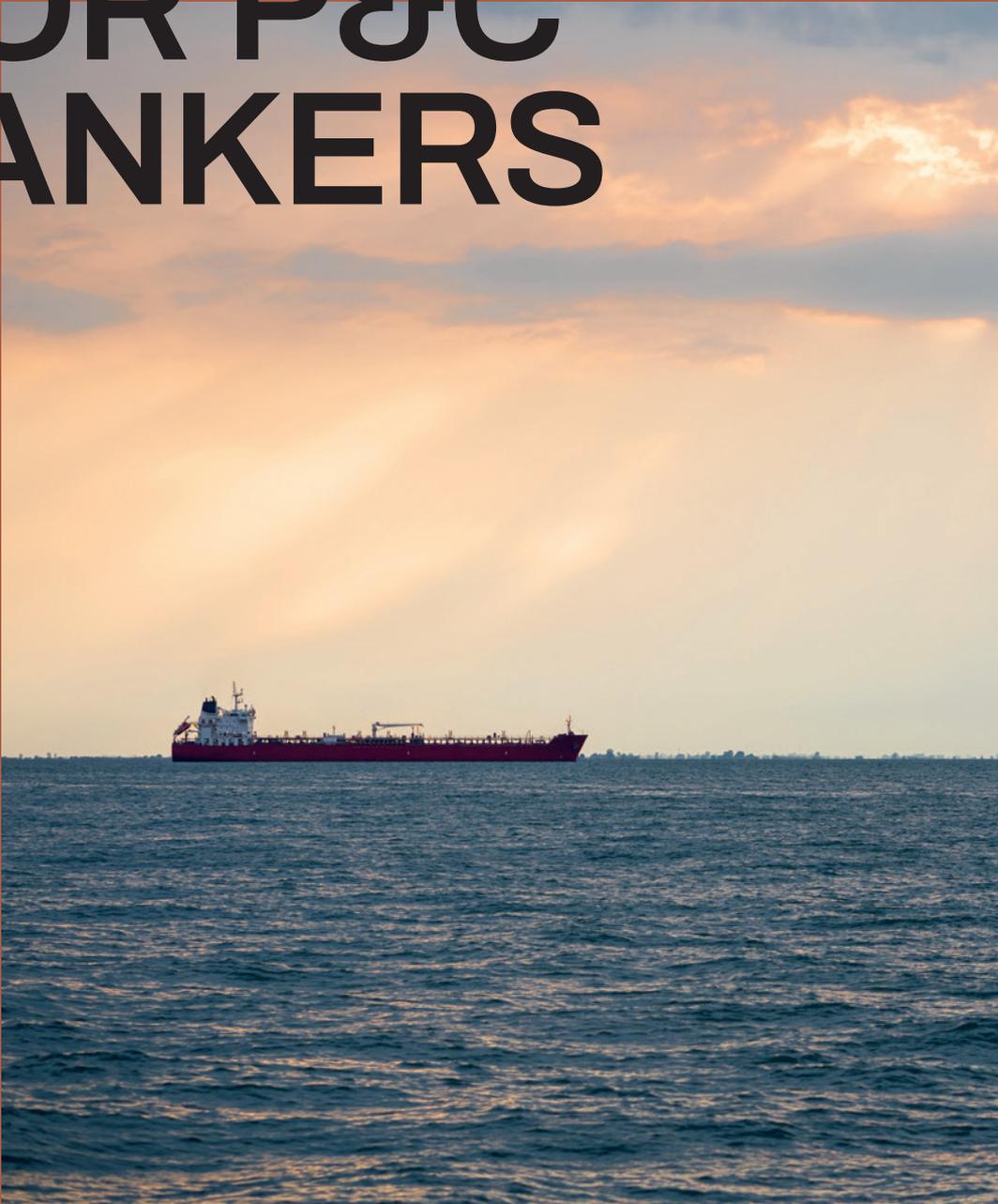


DEEPWELL CARGO PUMPS FOR P&C TANKERS

Powering a better future



SVANEHØJ

Svanehøj is the most trusted and renowned supplier of cargo pump solutions. Our electrical energy-efficient deepwell cargo handling system for product and chemical tankers has proven fit for purpose over decades on a global scale.



At Svanehøj we work based on the notion that we are better together. That's why a Svanehøj solution equals a long-standing partnership and first-class lifecycle support from industry experts, who are committed to help you get the most out of your pump investment.

If you want to know more about how we can help you move forward, please don't hesitate to ask. We look forward to welcoming you on board.

www.svanehoj.com

The future of liquid cargo handling

Svanehøj is a market-leading manufacturer of specialised deepwell and in-line pumps for the marine industry.

With close to 100 years of experience we have developed an unparalleled design and technology that ensures our customers the best, safest, and most reliable pump solutions on the market.

Our system is the most reliable, flexible, and cost-effective on the market. Thanks to the unique electric motor it is the most environmentally-friendly choice, offering energy savings and significantly lower CO₂ emission compared to hydraulic alternatives. This, and numerous other benefits, makes it the absolute best choice for safe, reliable, and responsible cargo offloading.

Advantages of electrical system compared to hydraulic:

- 11-25% less power consumption (fuel savings)
- Up to 15 tons less weight
- Reduced discharging noise levels. No restrictions against discharge, due to noise requirements
- Up to 60 m² space savings in accommodation
- Highly reduced maintenance and operational costs
- 40% lower purchasing price

The reliable and energy-efficient choice

With Svanehøj's well-proven technology, and vast expertise, our deepwell pump system for product and chemical tankers does more than ensure safe and reliable cargo handling.

It serves to continually optimise performance and efficiency, reducing downtime and guaranteeing a lower total costs of ownership, thanks to:

Electrical drive system

The electrical drive system, with its frequency converters, enables the pumps to run full variable speeds for optimum pressure and flow. This ensures maximum performance at any condition and with any type of cargo resulting in considerable physical and economic energy savings.

Robust design and technology

Thanks to the enhanced sealing and enclosure, the pumps' electrical motors are extremely robust and resistant even in the harshest conditions, minimising unforeseen repairs. For heavy duty applications, we provide deepwell pumps with a documented meantime between repair of 10,000 hours.

Easy installation and maintenance

The system is quickly installed and easy to maintain by the crew. The electric pumps are mounted on deck, which allows easy access and more space for cargo.

Fuel savings

The pumps are highly energy-efficient and offer 11-25% fuel savings. The pumps support the IMO's energy efficiency design index (EEDI), which helps yards and owners meet the continuously increasing demands of the EEDI.

Long service life

Every component of the electric deepwell cargo pump system is designed for a long, serviceable life. The system has a proven reliability with minimum maintenance required.





Pump types for every need

We offer three different types of cargo pumps for chemical and product tankers, which have been designed based on our extensive experience in the marine industry and thoroughly tested in our unique in-house testing tower at our facility in Aalborg, Denmark.

The DL and DW pumps cover capacity ranges from 30 m³/h to 500 m³/h, while the CKL pump range covers a higher range of capacity from 500 m³/h, up to 1800 m³/h. Each pump type consists of:

Electric motor

The electric motor is explosion-proof and weatherproof for safe installation on-deck. The deck arrangement includes base arrangement, integrated lubricating oil tank, upper drive shaft bearing, purging, and stripping connections.

Pipe stack

The pipe stack consists of a cargo pipe and an oilfilled drive shaft column with slide bearings. The oil lubricated bearings are held in position by flexible O-rings. The transmission shaft is made of carbon steel alloy.

Pump head

The fully casted pump head has a double mechanical shaft seal, stainless steel shaft, and a ball bearing arrangement. The cofferdam between the two mechanical shaft seals has pipe connections to deck for purging. The casing wear rings are easily accessible.

Additional components

Upon request we offer additional pump components such as a hydraulically-driven portable pump, ballast pumps, multisuction solution for DW and an automatic stripping system for DL and CKL.





at your service

We are available at all times and all locations. Our support hotline can be reached 24/7, and thanks to our extensive global network, our engineers can be on-site within 24 hours in the case of outages of failures. **We're there for you whenever, wherever.**



Fit for purpose

With Svanehøj's electric deepwell cargo pump system you get a complete, flexible and user-friendly solution that meets your specific needs.

Our engineers work closely with you to supply an optimised plug and play system that makes your day-to-day pump operations as simple, timeeffective, and energy-efficient as possible. The electrical drive system is designed to suit your preferences in terms of scope of monitoring, flexibility and redundancy. Furthermore, Svanehøj's electric system can be utilised to a great number of other features on-board.

What makes the difference

With Svanehøj you not only get the most trusted and renowned gas pump solutions on the market but a vast number of advantages:



Proven and reliable technology

We have close to 100 years of experience and more than 7000 pumps currently operating on gas carriers worldwide. This is your guarantee for outstanding quality and performance.



Safety

Our pumps have gone through extensive testing to make sure they live up to the highest global standards of safety. Our gas pumps feature double mechanical seals mounted back-to-back in oil bath to prevent leaks.



Lifetime support

We want to offer the best service in the market and are dedicated to continuously advise and support our customers in optimizing their pumps throughout the lifetime of the installation. We are also happy to provide our customers with on-site training on how to optimally use their pumps.



Responsiveness

We know that time is of the essence and take pride in always being proximate and responsive. We have a global network of support and service centres providing expert advise to customers around the world.

Svanehøj Danmark A/S
Fabriksparken 6,
DK 9230 Svenstrup J

Tel. +45 9637 2200
svanehoj@svanehoj.com
svanehoj.com

SVANEHOJ