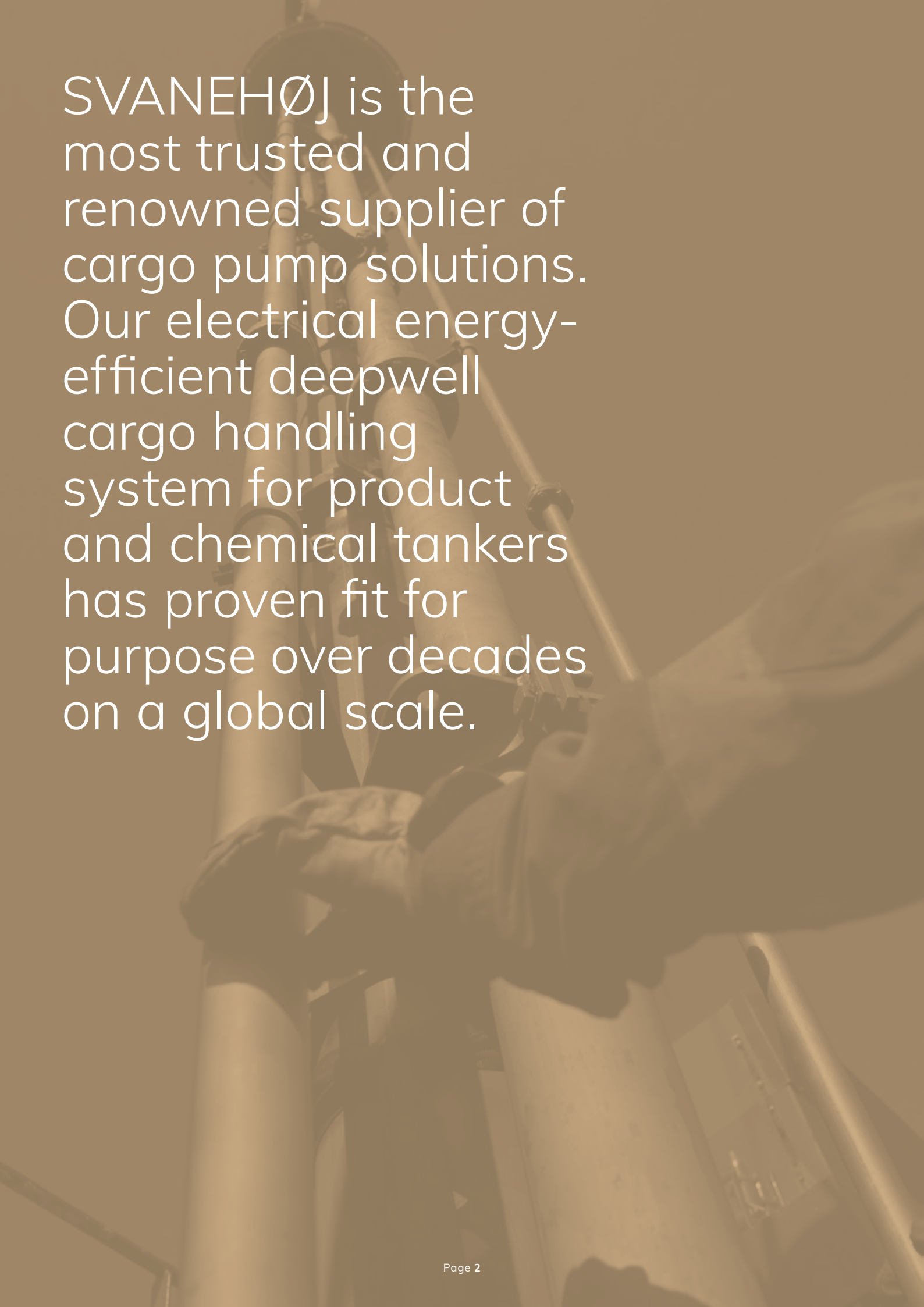


SVANEHØJ deepwell cargo handling systems for product and chemical tankers



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.




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
 - Up to 60 m² space savings in accommodation
 - No restrictions against discharge, due to noise requirements
 - 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

We offer three different cargo pump types 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 weather-proof for safe installation on-deck.

Deck arrangement

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 oil-filled 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.

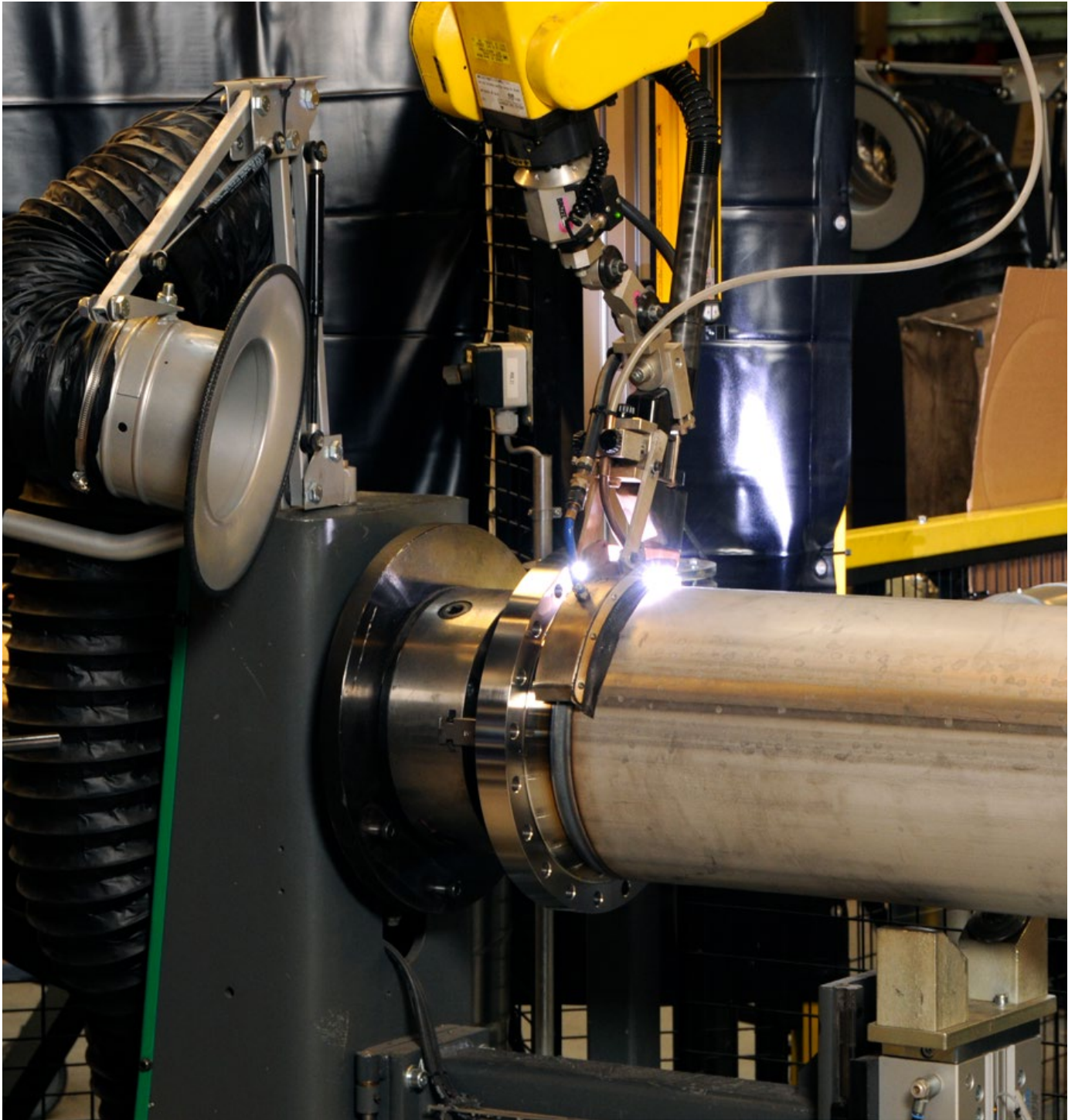
Pump head

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.





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, time-

effective, 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.

At your service

At SVANEHØJ our goal is to be your preferred provider of pump solutions, which is why we go the extra mile to make sure that you get the most out of your investment. In addition to excellence in quality and performance you get the support and advise of our highly-educated and experienced team of experts throughout the entire lifetime of your installation.



PROVEN AND RELIABLE TECHNOLOGY

We have close to 100 years of experience, and our solutions are among the most renowned and trusted on the market. This is your guarantee for unrivalled quality and performance.



SAFETY

Our pumps have gone through extensive testing to make sure they live up to the highest global standards of safety. The electrical deepwell cargo system has a proven track record of zero major incidents during more than four decades.



LIFETIME SUPPORT

We want to offer the best service in the market and are dedicated to continuously advising and supporting our customers in optimising 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 and are available to customers around the world 24/7 with expert advice, support, and repair services

WELCOME ON BOARD

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 helping you get the most out of your pump investment.

To learn more about our deepwell cargo handling systems for product and chemical tankers, please don't hesitate to contact us. We look forward to welcoming you on board.

CONTACT

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