

CARGO OIL AND BALLAST PUMPING SYSTEM

Powering a better future



Solutions for the zero-carbon transition

SVANEHØJ
— An ITT Company

Compact solution for ultimate efficiency

Recognized as a leading expert in pumping systems for the marine industry, Hamworthy Pumps is renowned for its Cargo Oil and Ballast Pumping System that combine compact size, reliability and high efficiency.

Hamworthy Pumps Cargo Oil and Ballast Pumping System are in daily operation in hundreds of vessels around the world – and with good reason. They are a result of continuous research and development and a commitment to not only meet but also exceed expectations in the market.

Since the launch of our first Cargo Oil and Ballast Pumping System in 1958, we have been a preferred supplier, working closely with allied partners, including owners, design institutes, and sub-suppliers.

We have developed a fully integrated PLC based control system, which comes with an HMI touch screen of up to 20" to safely control and monitor performance of our system. As a trustworthy solution provider for tankers, we have also successfully delivered for FPSO's and FSO's.

What truly distinguishes the Cargo Oil and Ballast Pumping System from Hamworthy Pumps is the unmatched combination of compact configurations for optimum room layout and high operational efficiency. This ensures easy installation and maintenance and maximum performance during any unloading condition.

Together with worldwide service support throughout the lifetime of the ship and fast on-time delivery, Hamworthy Pumps is a partner that never leaves focus on what matters most: Results you can trust.

Find our products and solutions within the areas of Engine Room Pumps, Cargo Oil and Ballast Pumping Systems, Fire Water Pump Packages, Exhaust Gas Cleaning Pumps and Offshore Products, as well as Global Sales and Aftersales Service at www.svanehoj.com

Why choose Cargo Oil and Ballast Pumping System from Hamworthy Pumps?

Cargo Oil and Ballast Pumping System is built for ultimate reliability and accessibility and designed to ensure a space-saving solution with a high total system efficiency.



Premium quality

Tough conditions call for tough materials and premium quality. Hamworthy Pumps use nickel aluminium bronze as standard for seawater application because it has the longest service life. Stainless-steel and duplex-steel solutions are also available.



Effortless maintenance

Designed and built with standard components, the Hamworthy Pumps Cargo Oil and Ballast Pumping System ensures easy access to wearing parts. A separate room for pumping equipment, located between the engine room and the cargo hold, provides convenient access to all key components for regular maintenance.



Worldwide support and fast on-time delivery

Worldwide support and fast delivery are essential. Svanehoj Singapore helps customers 24/7, whether it is in the form of inspections, repairs or technical advice, ensuring comprehensive security throughout the lifecycle of the solution.



Compact design and easy integration

The compact configuration of Hamworthy Pumps' Cargo Oil and Ballast Pumping System saves costly space. Simultaneously, the electric PLC-based control and monitoring system is designed for easy integration with other onboard systems, such as the Load Calculator and Level Gauging System.



Robust and reliable

Hamworthy Pumps Cargo Oil and Ballast Pumping System is very robust in construction and designed for fast reliable pumping and final stripping of any liquid cargo.



Quality, Health, Safety and Environment

Svanehoj Singapore operates with the QHSE management system, which conforms to ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and is certified by DNV GL.

We also hold various product certifications under classification societies such as ABS, BV, DNV GL, LR, NK and we are able to provide other classifications upon request.



Electric drivers

At Svanehoj Singapore we offer electric drivers installed in the engine room for optimal reliability and protection. Our solutions can be configured with either a horizontal or vertical orientation of electric motors, ensuring flexibility for different vessel designs and requirements.

Cargo Oil and Ballast Pumping System features

The Cargo Oil and Ballast Pumping System includes unparalleled design and technology, and offers a range of features that make cargo unloading both safer, easier, and more efficient.

System supplies – an integrated package

The cargo handling system may come as an integrated package. Some of the key components are:

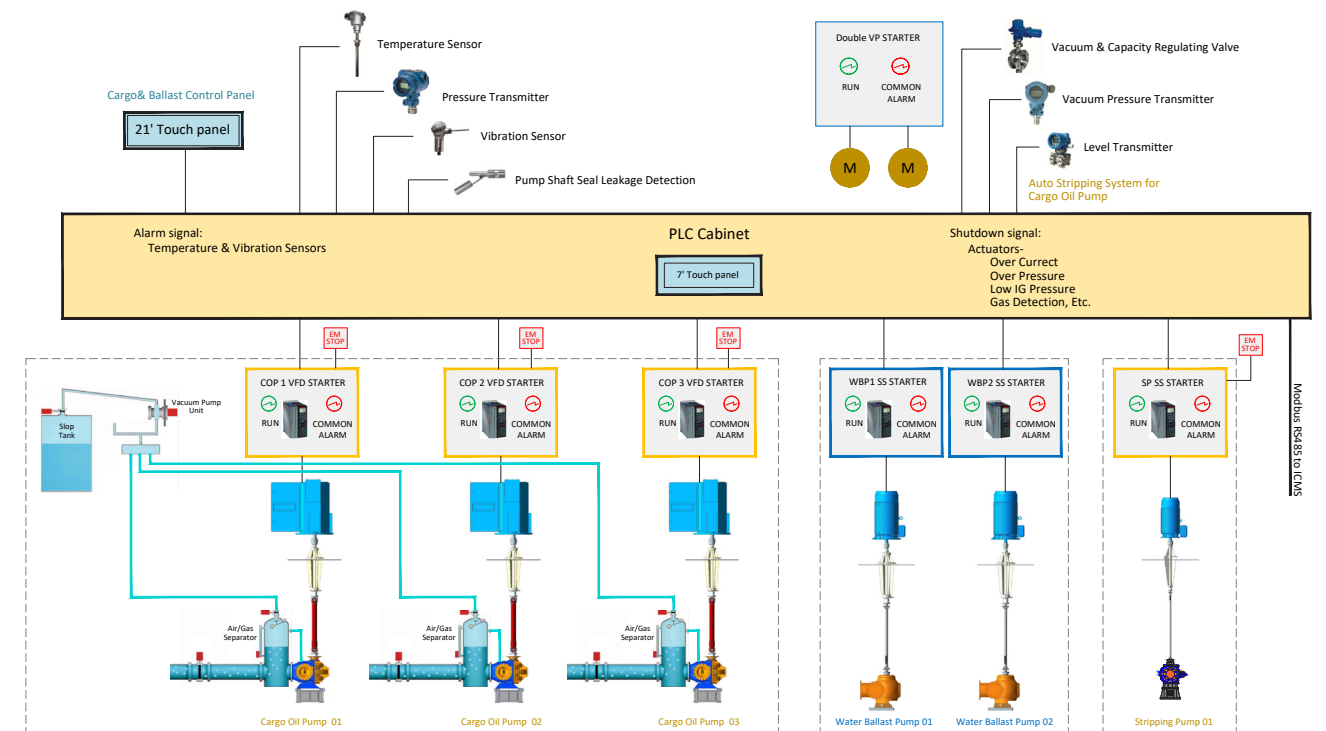
- Cargo pumps
- Ballast pumps
- Drivers – electrical motor
- Auto stripping systems
- Remote cargo valve control
- Condition monitoring

Cargo and Ballast Pumps

The cargo pumps handle crude oil and oil products with capacities from 400 to 6500 m³/h in vertical or horizontal orientations. The design is exceptionally compact with multiple nozzle configurations, and pumps with double seals, barrier fluid, and leakage detection.

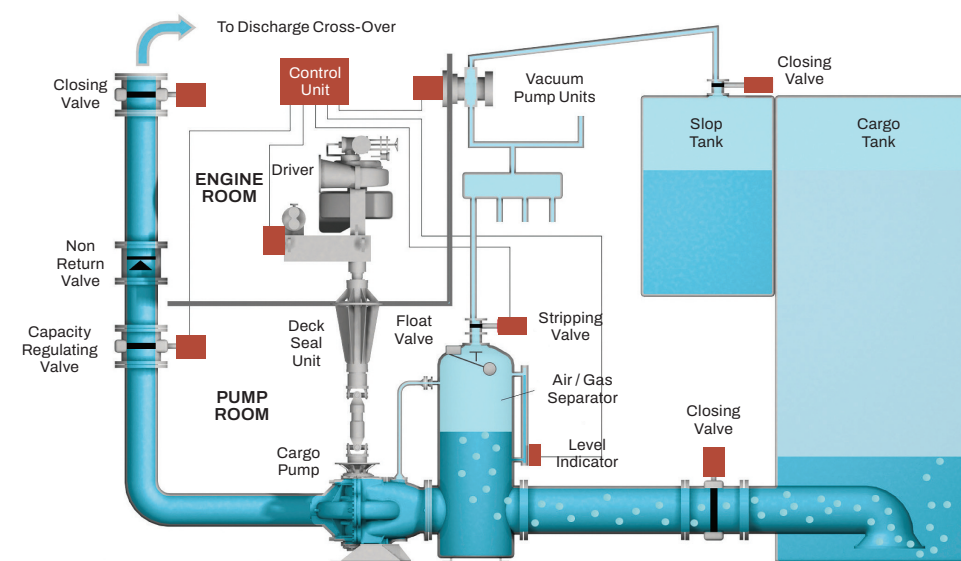
The ballast pumps handle seawater with capacities from 400 to 6500 m³/h in vertical or horizontal orientations. A compact semi axial flow design with multiple nozzle configurations ensures large capacities at lower heads.

Fig. Cargo Control System



The PLC-based system is capable of handling all alarms, shut-downs and monitoring functions required for all components included in the cargo unloading system. All necessary control stations, both local and remote, in Cargo Control Room (CCR) are included. This improves not only safety matters but also simplifies the daily job of the operator, providing the best possible overview at all times.

Fig. Auto Stripping System



PA Priming and capacity regulating system converts any centrifugal pump into a self-primed unit for optimal discharge capacity and stripping performance, reducing total discharge time to an absolute minimum.

The main components are air/gas separators with built-in strainers, vacuum pump units, capacity regulating valves, and the latest PLC-based all-electric control units.

Excellent service at all times

It is essential for any marine business to have the pumps running. With a strong worldwide service set-up, Svanehoj Singapore ensures maximum reliability and competitiveness.

Problems need to be solved quickly in the marine industry. Every minute counts. The support and service of Svanehoj Singapore is designed to match these needs and take on challenges however difficult they might be. As a customer you can be sure of:

- 24/7 hotline managed by experienced experts
- On-site help within 24 hours at any location
- Rapid OEM spare part supply

Svanehoj Singapore also offers a wide range of repair and maintenance services, from performance optimisation to on-site training and monitoring.



Altera Wave

Owner: Altera
Delivery: From HHI 2021
System: Hamworthy Pumps Cargo Oil and Ballast Pumping System with 10000 m3/h offloading capacity.



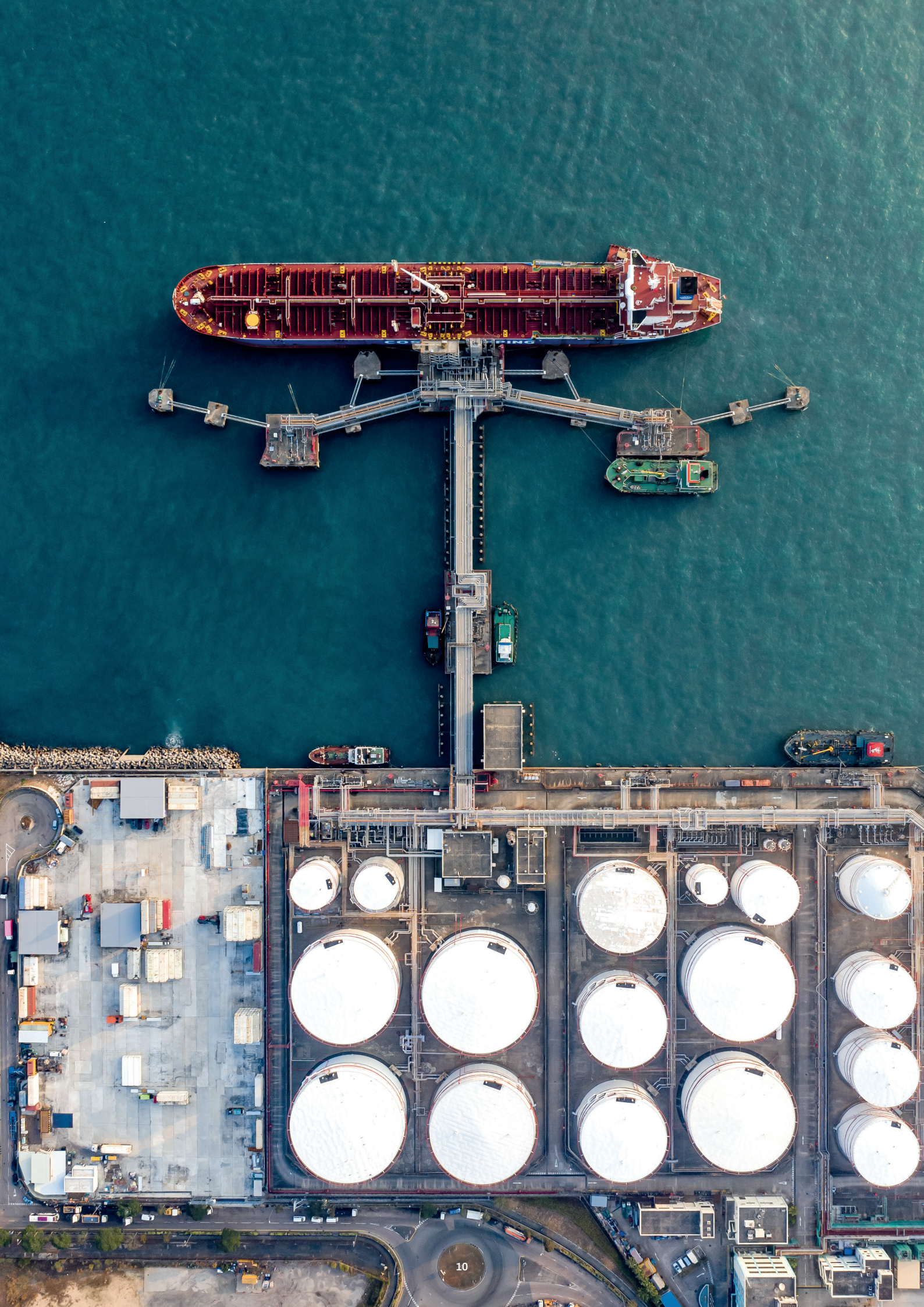
Tove Knutzen

Owner: KNOT
Delivery: From SHI 2020
System: Hamworthy Pumps Cargo Oil and Ballast Pumping System with 12000 m3/h offloading capacity.



Amarthea

Owner: Chandris
Delivery: From COSCO (Dalian) Shipyard 2018
System: Hamworthy Pumps Cargo Oil and Ballast Pumping System with 10000 m3/h offloading capacity.

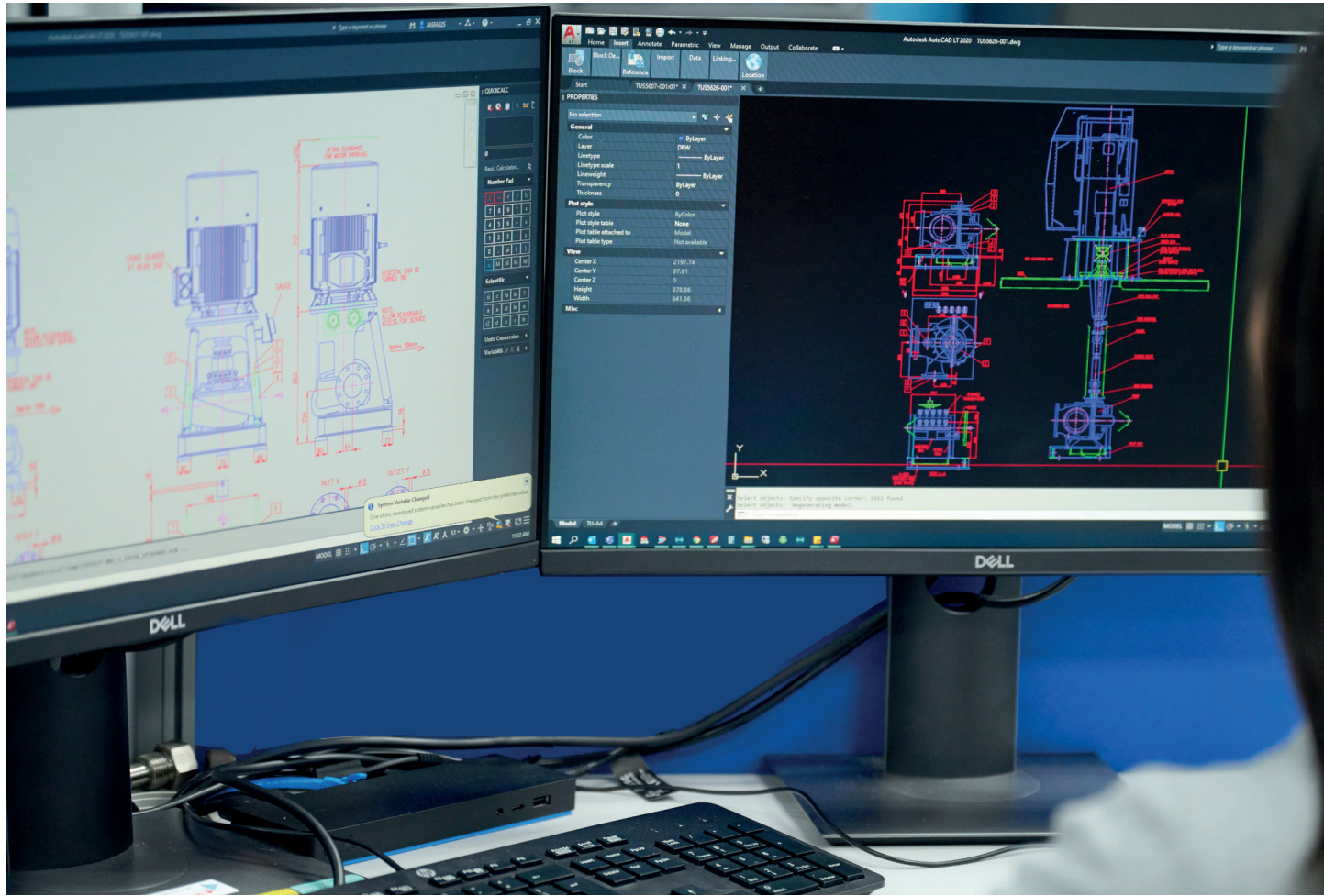


A trusted marine partner since 1889

Svanehoj Singapore is a market-leading manufacturer of Inline Pumps for the marine and offshore industries, and delivers Engine Room Pumps, Cargo Oil and Ballast Pumping System, Fire Water Pump Packages and Scrubber Pumps.

Committed to continuous improvement and solutions that keep adding value, Svanehoj Singapore is known for developing strong partnerships and innovation that fit customers' competitive needs. To this belongs a firm focus on ways to reduce the environmental impact of

products, services, and operations, and actively contributing to UN's Global Goals for Sustainable Development. It is the will to do better every day. It comes with our name – and with being trusted by customers since 1889.



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