

SANHEEL

ANTI-HEELING SYSTEM



SANDERMARINE
MARINE + OFFSHORE EQUIPMENT

SANDERNAVY
NAVAL EQUIPMENT



MAXIMUM EFFICIENCY. MAXIMUM SAFETY.

System Overview

/ Control panel

The control panel is designed as a touch panel and can be integrated in the control box or in an existing console. The first panel is the master, all other panels are working as slaves. Each panel is equipped with an emergency stop button. A dimmable version for the wheel house is available.

The control panel may be integrated into SANSYS control and monitoring system.

/ Control cabinet

With or without control panel. The control box contains the power supply 24VDC, line protection for 24V, SPS with I/O modules, software, safety relays for emergency stop, inclinometer and the terminals for the pump starter box and the control panels.

/ Pump starter box

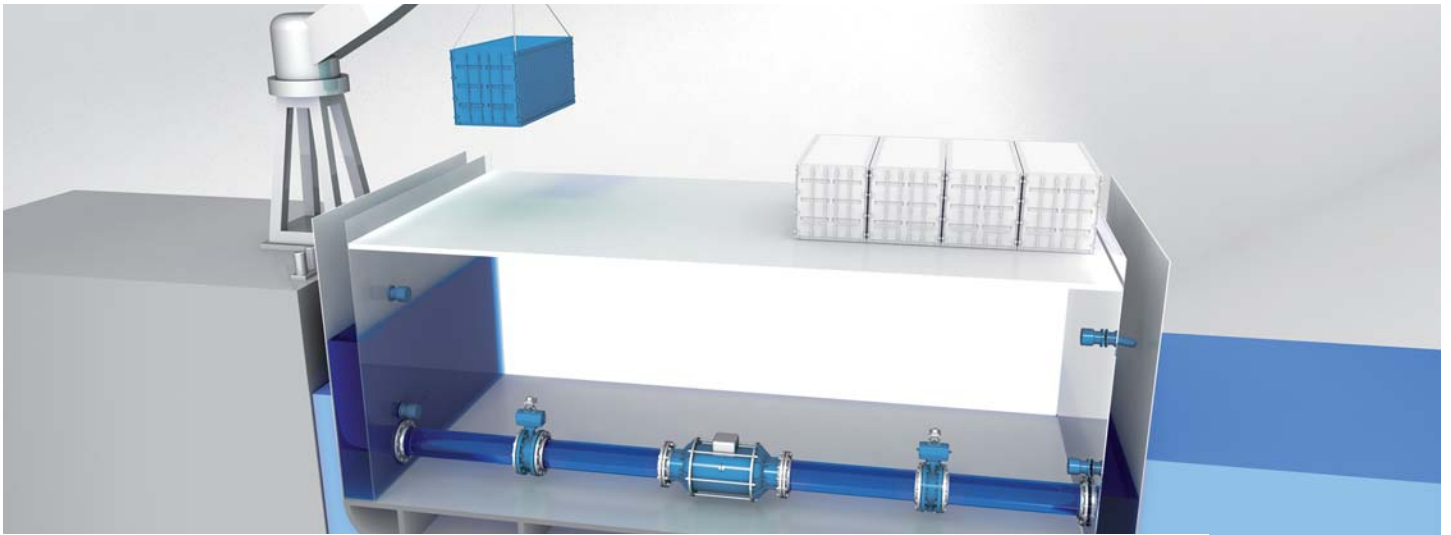
The pump starter box contains the control of the heeling pump, the terminals for level switches and pressure sensors and the terminals for control and feedback of the connected butterfly valves.

/ Be on the safe side

For the unattended operation a tilt switch is built in that turns off the weight transfer operation independently. Predictive maintenance (based on number of opening/closing cycles, running hours) provides long-lasting trouble-free operation.



We are certified according to
ISO 9001: 2015
Cert.no. 10213168



ANTI-HEELING THE SANDER WAY

SANHEEL detects the heeling angle of the vessel and rebalances the ship automatically by pumping ballast water from starboard to portside or vice versa.

Your benefit: No compromises

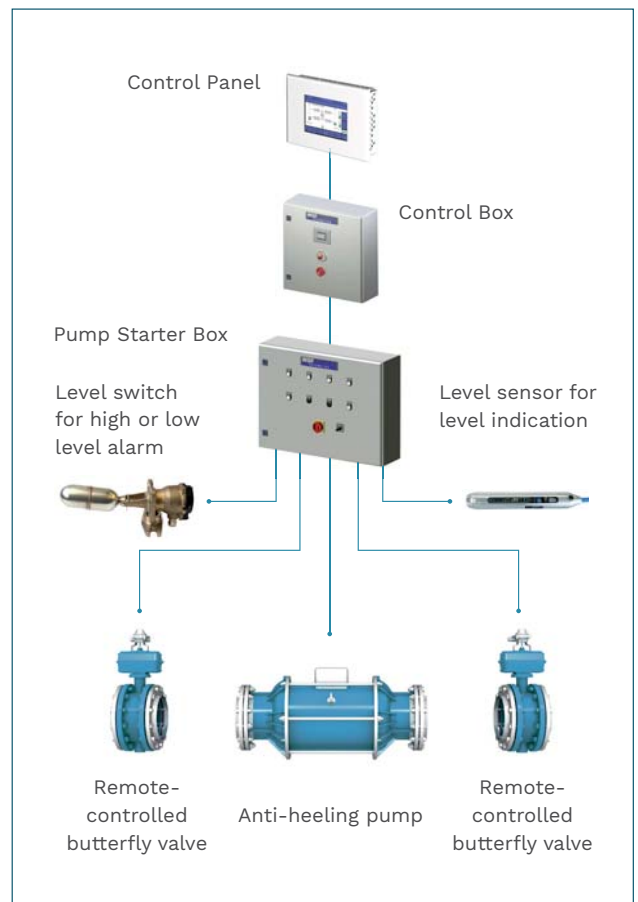
Loading and unloading can be operated continuously and in reduced time while the vessel is kept safely upright. The control system evaluates the connected inclination sensor and automatically controls the mass flow through the valves and the pump to compensate the heeling by weight transfer.

A pre-heeling feature allows the crew to prepare the vessel to load or discharge single heavy pieces of cargo.

SANHEEL anti-heeling system can operate with reversible and nonreversible pumps, using remote-controlled valves to direct the ballast water flow. For safety reasons the system is provided with emergency stop equipment which can be pushed at all operating stations. Type approved by DNV-GL.

Seamless integration

The SANSYS control and monitoring system allows a seamless integration of a SANHEEL anti-heeling system with other systems such as SANCONTROL remote control valve system or SANVALUE tank level gauging system.



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Sander Marine GmbH&Co.KG

Julius-Bamberger-Str. 1 / 28279 Bremen / Germany

Phone: +49 421 48603-0

E-mail: info@sander-marine.com

Web: www.sander-marine.com

E-mail: info@sander-navy.com

Web: www.sander-navy.com