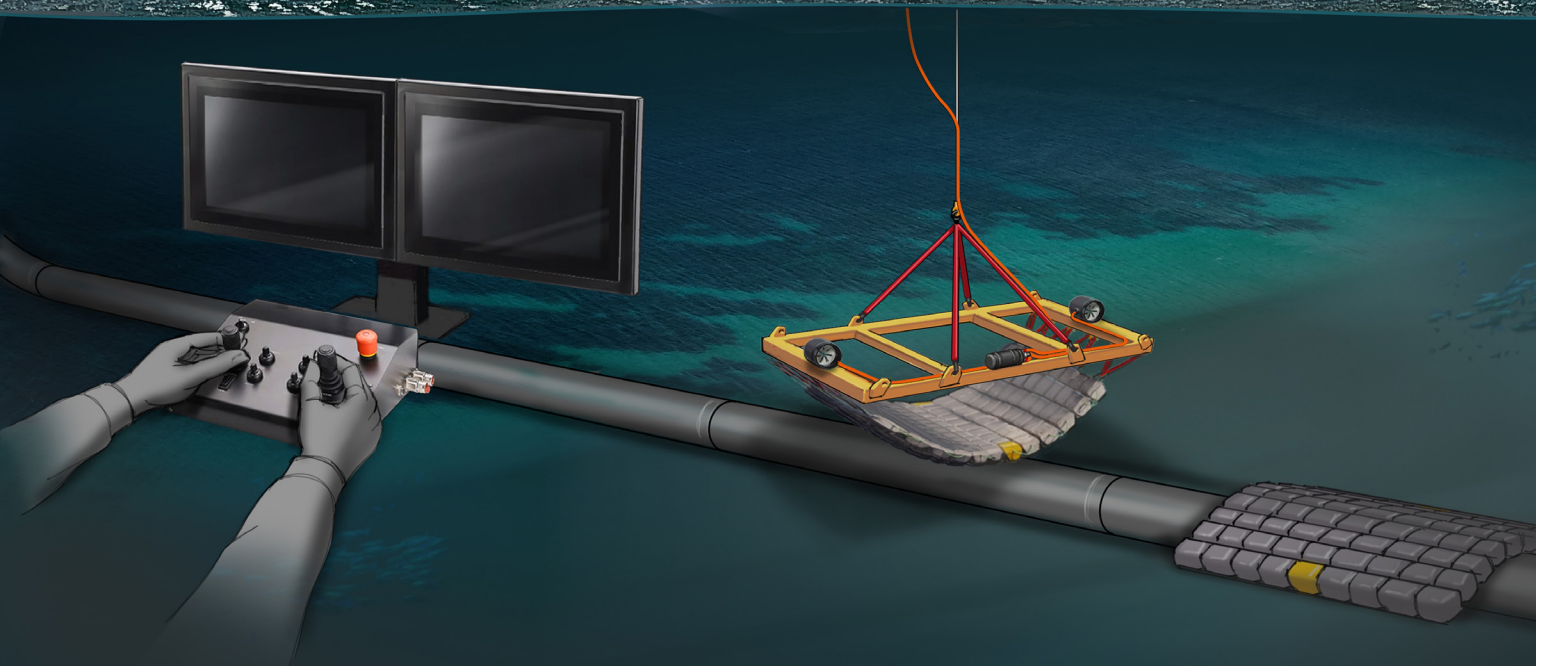
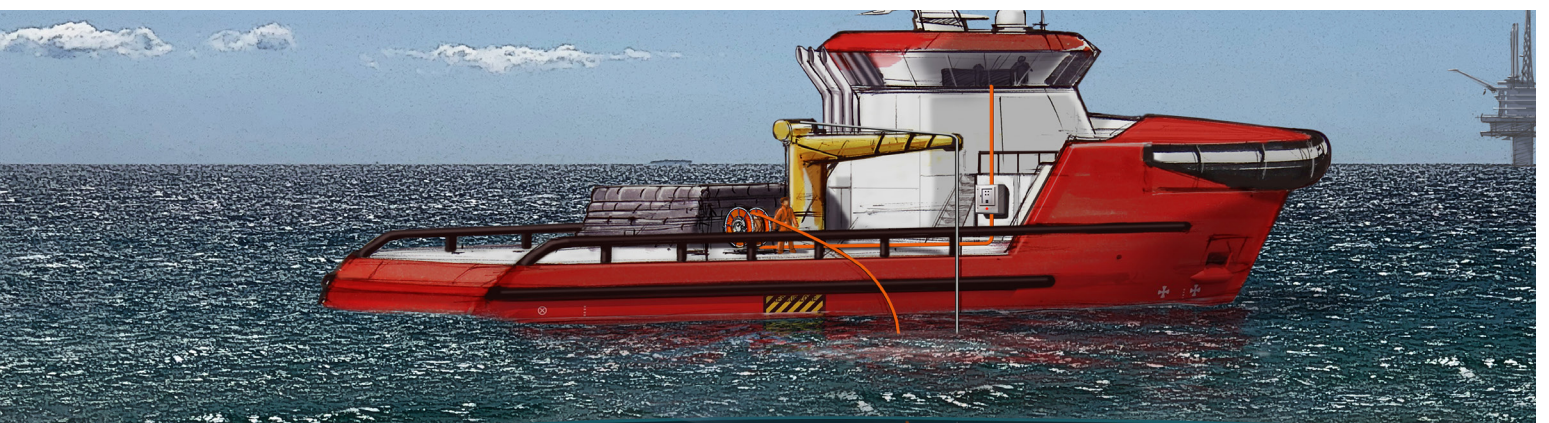


# COPENHAGEN SUBSEA

## MANEUVERING SUBSEA SYSTEM

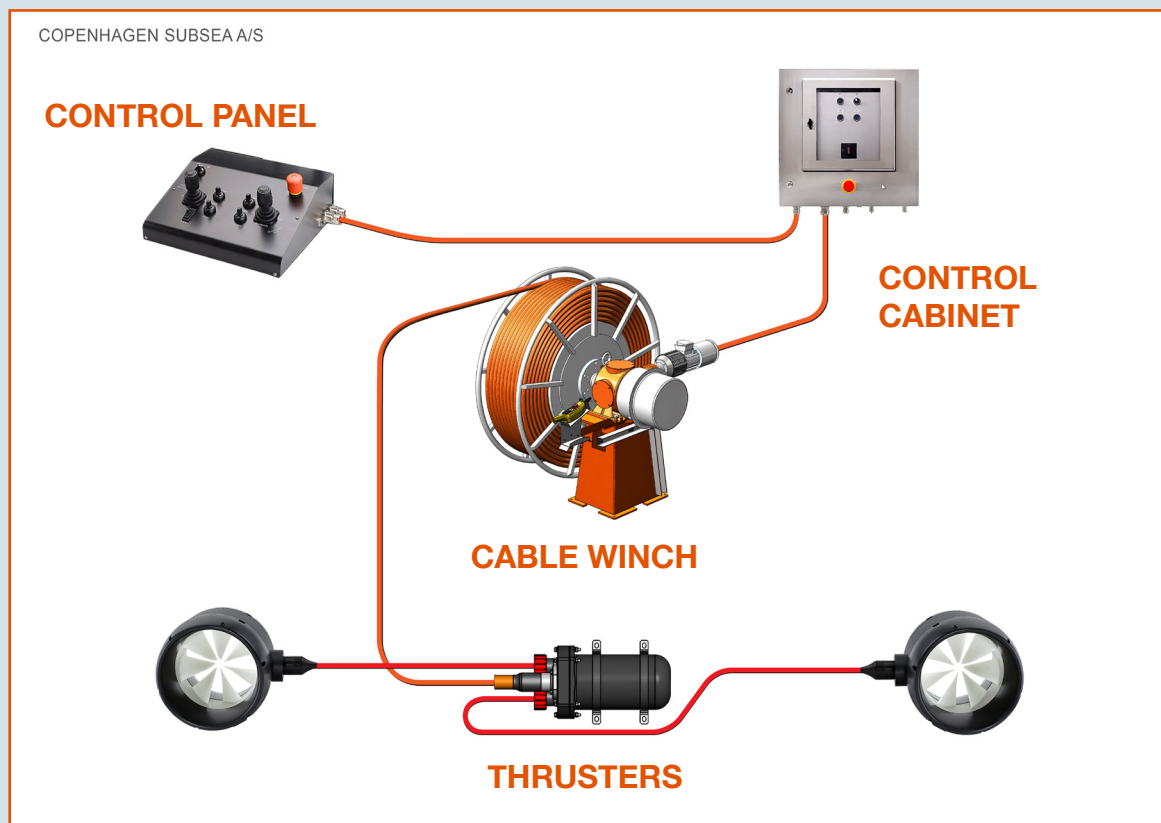


## HEADING & POSITION CONTROL

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## MANEUVERING SUBSEA SYSTEM

The maneuvering subsea system consists of everything from the control panel to the thrusters. The system is based on industrial and reliable components throughout the whole solution. The system is fully electric and is therefore completely oil-free. The propulsion units are based on our innovative and reliable subsea thrusters which have been through intensive and thorough testing. Due to the use of industrial hardware throughout the system, the system provides an unprecedented level of reliability and maneuverability. The system provides precise positioning of subsea tools due to extremely fast response time.



## ADAPTATION FOR MULTIPLE SUBSEA TOOLS

The maneuvering subsea system is adaptable for various subsea tools, such as:

- Subsea Cable and Pipe Detection
- Multiple Purpose Grab
- Various Seabed Installations
- Mattress Installation
- Inspection & Repair Systems

## COMPONENTS

### CONTROL PANEL

The control panel is designed with a build-in PLC industrial computer from OMRON. The joystick enables easy control of position and heading of the subsea tool. Further, the HMI provides an overview of all relevant data of the system.



- Industrial Components
- Emergency Button
- OMRON Touch Screen

- Compact And Easy To Handle



### CONTROL CABINET

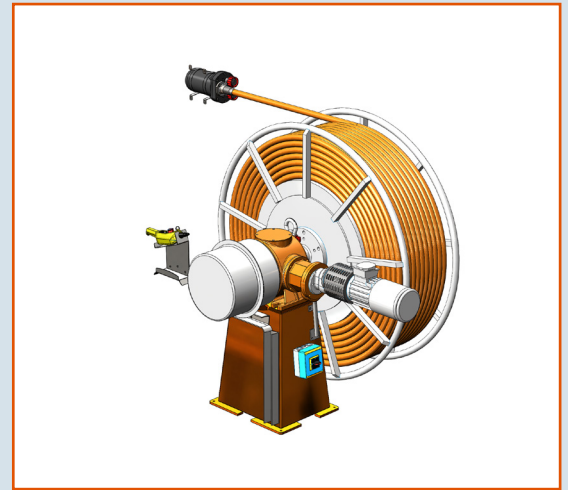
The control cabinet is designed with industrial electronics and controllers from OMRON. The controllers provided are MX2 controllers together with a configuration file. The cabinet operates with a power supply of 3x400 VAC and is made in stainless steel such it is suitable for outdoor use.

- Power Supply: 3x 400 VAC - 32A
- Remote Support By Internet VPN Connection
- Power Connector: CEE 32A

- IP 54

## CABLE WINCH

The cable winch is motorized and designed for offshore environment. The winch is managed by a remote such the winch is easy and safe to operate. The umbilical is neutrally buoyant and can be customized for each application.



→ Surface coating - MA 4 Offshore Environment

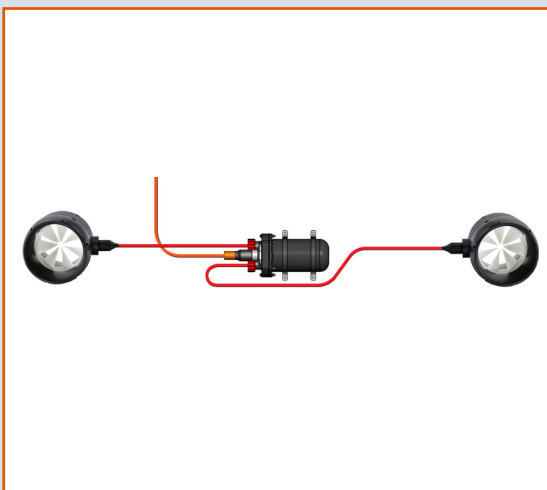
→ Customized Umbilical

→ Remotely operated

→ 1689x1142x1502 mm

## THRUSTERS

The propulsion solution consists of thrusters that are connected to a junction box. The junction box is completely oil-free and can be customized if additional thrusters are wanted. The thrusters are extremely robust and reliable due to the unique design. The surrounding seawater cools the thruster and enables operation at maximum power for extended periods of time. The result is an exceptionally powerful and reliable propulsion solution.



→ Oil-Free Junction Box

→ Fast Response Time - High Maneuverability

→ Adaptable Junction Box

→ Low Maintenance

→ No Risk Of Entanglement

→ Different Thruster Options (VS - VXL)



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