

# HYDRAULIC SOLUTIONS

for offshore wind





### **Mastering power**

Holmatro products are all about the principle that only controlled power can be deployed effectively. We have expressed this vision in the slogan 'Mastering Power'. Still, for over 50 years after the foundation in 1967, we keep honoring our traditional Dutch roots and represent innovation, quality and support. That is why we design, develop, manufacture, and test our tools in-house. Our experience with high-pressure hydraulics enables us to seek out the boundaries of what is technically possible. This has made our tools lighter, compacter, more durable, and easier to use.

[holmatro.com](https://www.holmatro.com)

# MASTERING POWER

Over 50 years' experience. Holmatro hydraulic equipment and system solutions are used worldwide in rescue operations, industrial applications and special tactics operations. These types of applications require reliable and safe equipment under all circumstances. To guarantee that Holmatro users can optimally carry out their specialist work, we deploy pioneering technology.

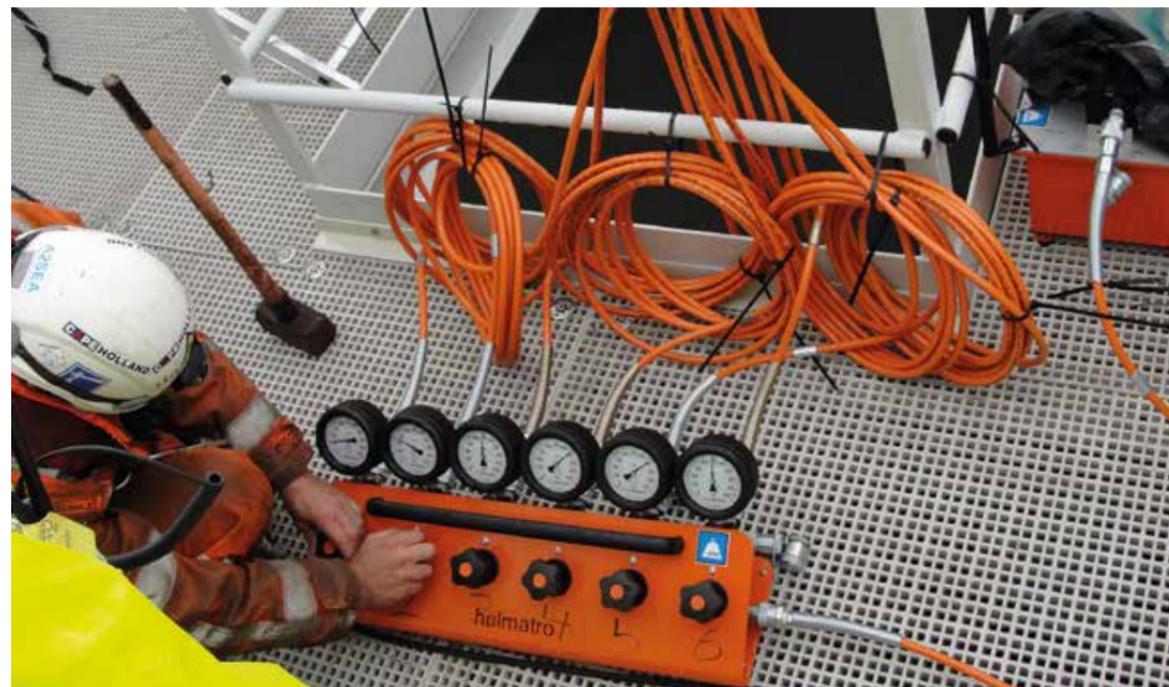
## Offshore Wind

Since the introduction of the TP levelling set in 2009, Holmatro has significantly expanded its product range for offshore (wind) applications. Besides hydraulic solutions to level and fixate wind turbine foundations such as transition pieces and jackets, we have proven ourselves in the field of cutting applications, seafastening, deck handling and skidding solutions. Our tools are also used for lifting, weighing and positioning applications.

## The right solution for your user requirements

Lifting, pushing, pulling, lowering, weighing, tilting or horizontal movement; whatever direction your project moves in, we move with you. For offshore applications, Holmatro tools and systems are regularly used to lift, weigh, or level heavy structures like platforms or parts thereof. But there's more. Due to our in-house engineering we are able to combine your application experience with our high-pressure hydraulics knowledge. Participating fully in the thinking process enables us to explore the boundaries of what is technically possible and to achieve the optimal solution for your challenge.

The options are endless. That's why we provide you with a range of hydraulic tools and system examples per stage. Is your solution not defined? Do not hesitate to contact us!



## ENGINEERING

- Consultancy
- Concept design
- Tender support

## FABRICATION

- Engineering support
- Hydraulic handling tools
- Skidding systems

## TRANSPORT & STORAGE

- (Sea)fastening systems
- Skidding systems
- Weighing systems

## INSTALLATION

- TP levelling systems
- TP fixation systems
- Jacket levelling system
- Jacket fixation systems
- Skidding systems
- Bolt tensioning systems
- Levelling & weighing systems
- Synchronized positioning and hoisting systems
- Hydraulic handling tools

## CABLE INSTALLATION

- Cable cutting solutions for above and below sea-level

## SERVICE & MAINTENANCE

- Training on safe usage
- Equipment installation / commissioning / Site Acceptance Test (SAT)
- Troubleshooting
- Periodic inspection, maintenance and certification

## DECOMMISSIONING

- Leveling & weighing systems
- Synchronized positioning and hoisting systems
- Cutting solutions for above and below sea-level



**SCAN THE QR CODE**  
and read more about our  
projects in offshore wind.



# HYDRAULIC SOLUTIONS

for Offshore Wind



Levelling cylinders



Fixation cylinders



Double-acting locknut cylinders



Pulling cylinders



Custom made cylinders



Custom made cylinders



Cable cutter



Mobile cutter



Skidding System

## REMOTE HOSE DECOUPLER

Fixate, release and disconnect: 3 functions, 1 hose!



- environmentally friendly; no medium spillage
- remote operated
- cost efficient
- re-usable

### Multi Pressure actuation Technology

Application of pressure ranges to operate different functionalities through a single hydraulic line.



powered by **MPa** technology

## Hydraulic solutions for offshore wind THOSE WHO HAVE CHALLENGED US ALREADY



TP LEVELLING & FIXATION

TP SEAFASTENING

TP levelling & fixation system with custom made remote operated pump unit (HPU)

Commissioned by  
**Jan De Nul NV**  
Project  
**Formosa 1, phase 2**

Transition piece seafastening system for various installation vessels.

Commissioned by  
**DEME Offshore**  
Project  
**Installation vessel 'Innovation'**  
**Installation vessel 'Sea Installer'**



Hydraulic solutions for offshore wind  
**THOSE WHO HAVE CHALLENGED US ALREADY**



**TP LEVELLING**

TP levelling sets for Dudgeon wind farm.

Commissioned by  
**Smulders Group**  
 Project  
**Dudgeon wind farm**



EIFFAGE  
**SMULDERS**



**TP FIXATION**

TP fixation sets for Burbo Bank Extension wind farm, Walney Extension, Rental and many more offshore wind farms.

Commissioned by  
**Van Oord**  
 Project  
**Burbo Bank Extension wind farm**



**Van Oord**  
 Marine ingenuity



**MP SEAFASTENING**

Monopile seafastening system for installation vessel SeaJacks 'Zaratan'.

Commissioned by  
**Conbit Engineering**  
 Project  
**Meerwind OWF**



**conbit**  
 ENGINEERING



**TP SEAFASTENING**

Transition piece seafastening system for installation vessel Aeolus.

Commissioned by  
**Van Oord**  
 Project  
**Walney Extension OWF**



**Van Oord**  
 Marine ingenuity

Hydraulic solutions for offshore wind  
**THOSE WHO HAVE CHALLENGED US ALREADY**



**MP SKIDDING**

Alignment system for installation vessel 'Innovation'.

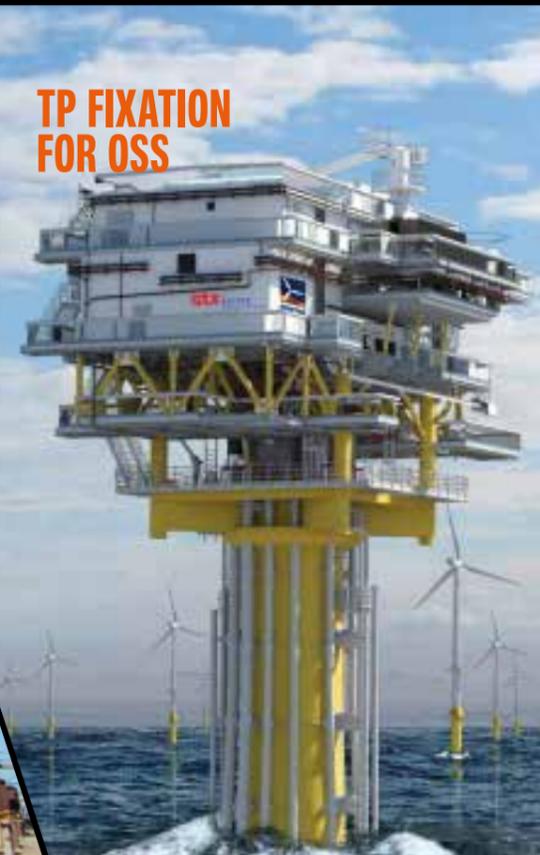
Commissioned by  
**GeoSea**  
 Project  
**Installation vessel 'Innovation'**



**JACKET FIXATION & RELEASE SYSTEM**

Temporary fixation and support system for grout connection of jacket foundation.

Commissioned by  
**Montube Sur - Navantia-Cadiz**  
 Project  
**Wikingen OWF Offshore Substation**



**TP FIXATION FOR OSS**

Precision placement of a TP on a MP for the positioning of an offshore substation (OSS).

Commissioned by  
**STX France**  
 Project  
**Rentel offshore wind farm**



**SUPPORTING**

Supporting a 9300 ton converter platform during construction and transportation.

Commissioned by  
**Heerema Fabrication Group (HFG)**  
 Project  
**DolWin Alpha Offshore platform**





# HOLMATRO SERVICE PROGRAMME

## A total solution

Applicable to all brands of hydraulic equipment is that malfunctions and defects will occasionally occur over time. Regular maintenance and correct usage are of great importance in ensuring that your equipment can continue to be employed optimally and safely during its entire operating life span. Holmatro can help you here. As a manufacturer of hydraulic equipment we are the ideal service specialist in the field. We know, how important professional maintenance is; not only for optimal functioning of the equipment, but also for the safety of the people who use it.

This is why Holmatro offers a comprehensive service programme for hydraulic tools from 500 to 4,000 bar, like industrial tools (cylinders, pumps and system components), hydraulic cutters and spreaders and additionally we also provide a service programme for hydraulic foundry tools.

### Holmatro ONsite Support

Specifically for the offshore (wind) industry, Holmatro has a team of GWO-certified field service engineers on standby. What can Holmatro ONsite Support offer you?

- Training on safe usage
- Equipment installation / commissioning / Site Acceptance Test (SAT)
- Troubleshooting
- Periodic inspection, maintenance and certification.

### Holmatro Service Centers

Holmatro Service Centers are trained and equipped with the testing equipment and specialist tools needed to provide maintenance, repair and certifications according to the Holmatro Inspection procedures. This means a professional and high quality service for keeping all your hydraulic tools in a safe and reliable condition.

The Holmatro service programme consists of the following services:

- Periodic maintenance
- Repairs
- Testing and certification
- Training and advice

SCC\*  
ISO 9001  
BUREAU VERITAS  
Certification



**WE WILL BE HAPPY TO HELP YOU DRAW UP A CUSTOMIZED SERVICE SOLUTION**



### Holmatro testteam

At Holmatro we combine high pressure hydraulics with innovative design and material use. The result is powerful, lightweight tools. Hydraulics is a form of drive technology. Power and movement is transferred and controlled using pressurised oil.



The Holmatro Testteam gives an animated look at the possibilities and results of working with high pressure hydraulics. Let Holmatro's service engineers surprise you and watch the films on our website!

# HOLMATRO OFFICES AND DEALERS

All over the world

Thanks to our worldwide sales and service network there's always a Holmatro representative nearby, ready to assist you!

Find your nearest Holmatro representative on [holmatro.com](http://holmatro.com)



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