



CUSTOMIZED SOLUTIONS

- + CUSTOM MADE SOLUTIONS
- + DESIGN WORK
- + HANDLING EQUIPMENT



techano

A PART OF VAN AALST GROUP

PROBLEM SOLVERS

In 2008, I created Techano. Possessing only a dream, an enormous amount of passion and one employee. Together we set out to create solutions. Solutions for an industry which is at the forefront of technological development and expansion. Namely the petroleum industry.

Since the beginning, we have focused on innovation, leading us to expand and strengthen Techano. Nurturing this simple idea has now allowed Techano to flourish into a strong brand which delivers high-end products, from concept to on-board installation. *All in one place!*

Over the years, we have acquired a great deal of knowledge and experience, through projects assigned by large companies, but more importantly through the expertise of new employees. Techano has made large investments into some of the most advanced software available, guaranteeing the highest quality products.

“How can such guarantees be made?” you might ask. The Norwegian climate is an unforgiving one. This has led to the creation of Norsok, a committee which governs the technical standard for lifting equipment created in Norway. These standards are just as unforgiving as the climate, allowing no room for

cheap or poorly made solutions, thereby guaranteeing products that are safe and reliable. At Techano, we have a *member of one of the Norsok committees* employed full time. This means we have an abundance of in-house knowledge, and we are kept up to date on the requirements our products must meet.

We consider ourselves “*problem solvers*”. This is even represented through our branding. For what is Rubik’s Cube if not the perfect machine? We seek to create innovative solutions that will be as solid and versatile as professor Rubik’s 1974 invention. *And, if possible, to make it even better.*

Today, Techano is a part of Van Aalst Group B.V.



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“Havfarmen”

Techano has secured a substantial contract to design and produce highly specialized offshore and marine equipment for the world’s largest floating aquaculture construction “Havfarmen”. Havfarmen is designed for exposed waters, and aims to make use of new areas for aquaculture.

Techano have a complete range of load handling equipment on board offshore fish farms, service vessels, trawlers and live fish carriers. Deliveries may include connection and transfer systems between fish farms and vessel.



Offshore material handling cranes

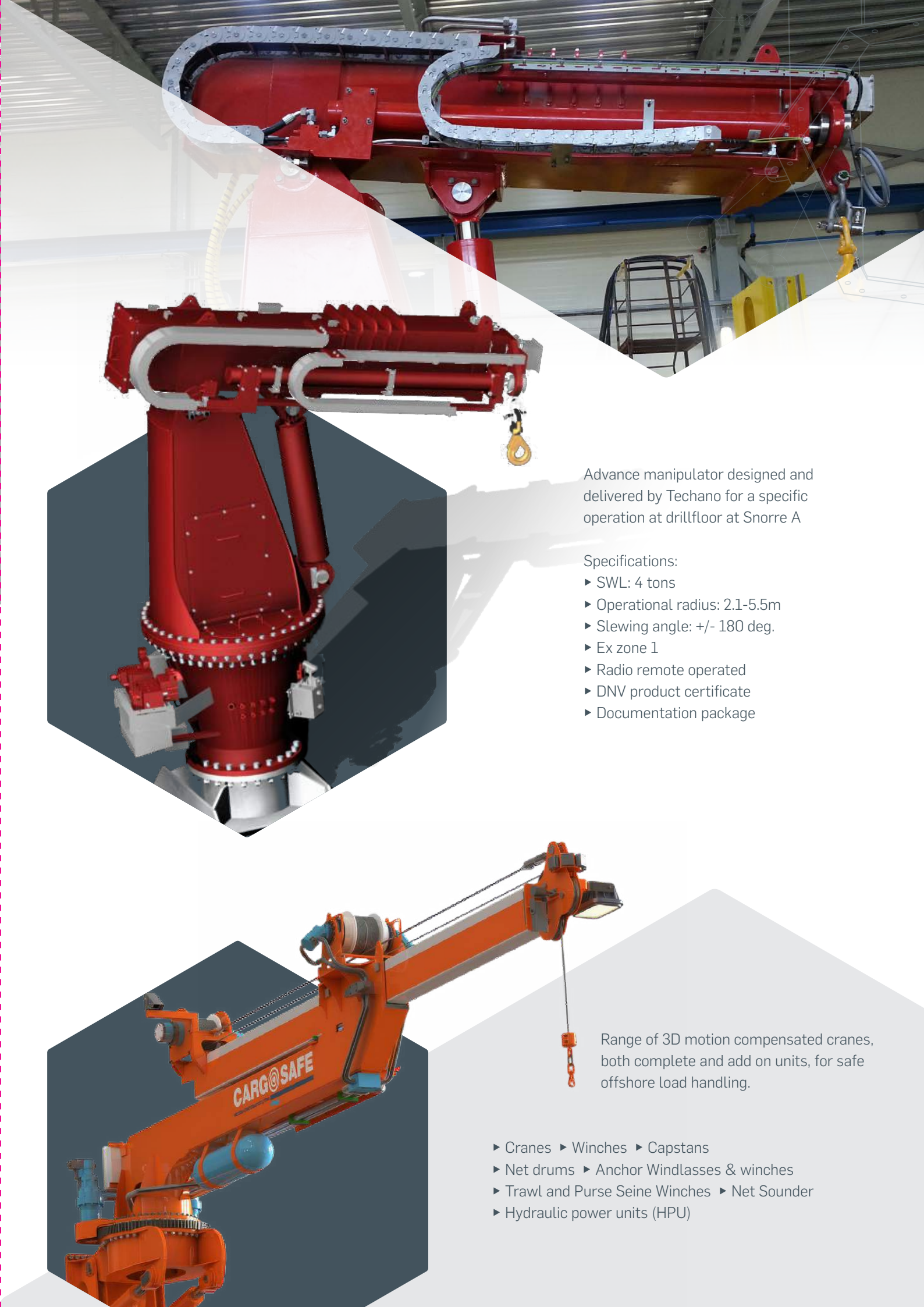
- Telescopic cranes
- Knuckle jib cranes
- Foldable cranes
- Cherry pickers





Motion compensated gangway – Safeway

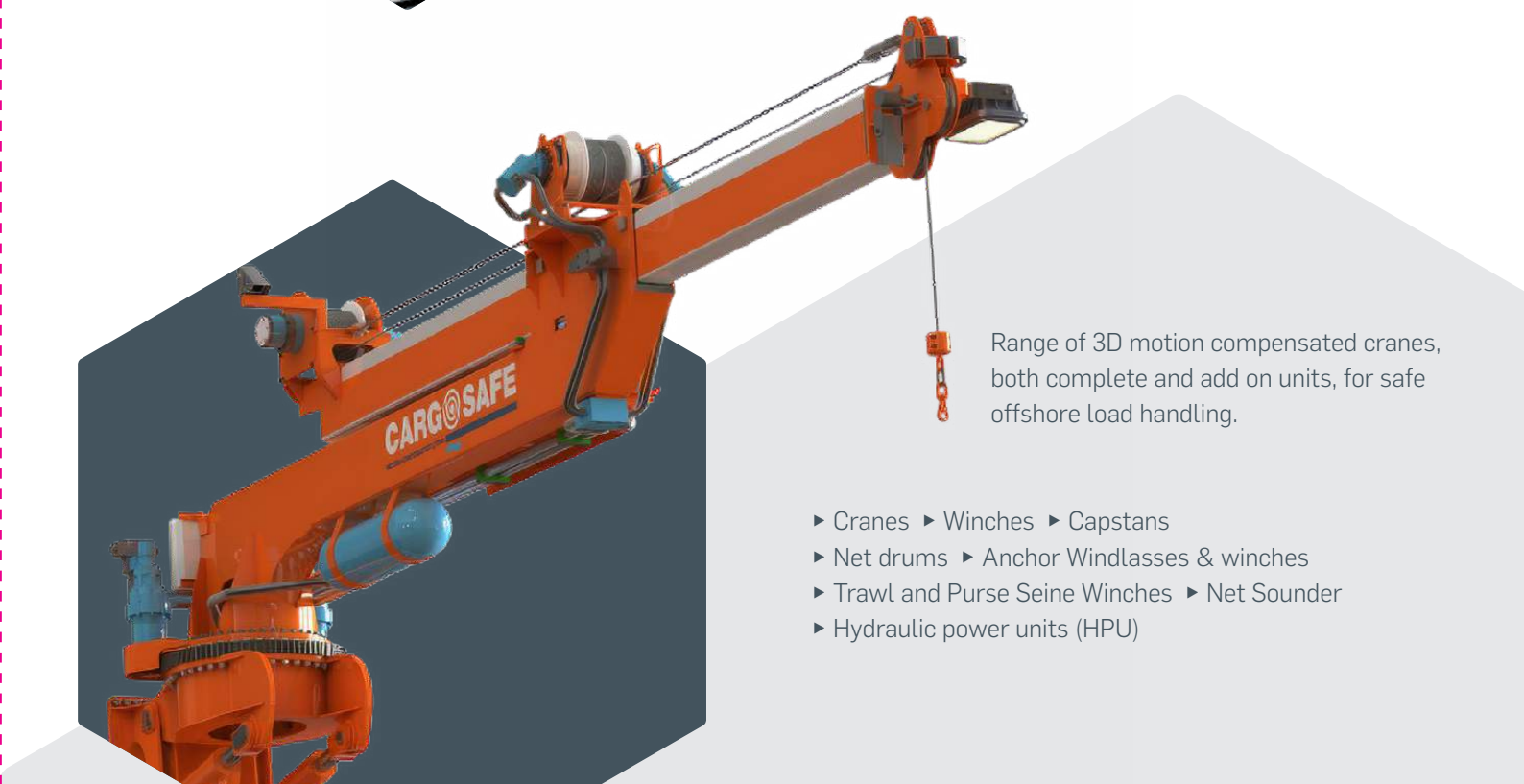
- ▶ Zero impact bumping
- ▶ Enhanced safety
- ▶ Increased efficiency
- ▶ Improved workability
- ▶ 3D compensated system
- ▶ Combined aluminum A-frame and foldable stairway system for walk to work gangway.
- ▶ Combined gangway and cranes.
- ▶ Low power consumption
- ▶ Covered inner- and outer boom



Advance manipulator designed and delivered by Techano for a specific operation at drillfloor at Snorre A

Specifications:

- ▶ SWL: 4 tons
- ▶ Operational radius: 2.1-5.5m
- ▶ Slewing angle: +/- 180 deg.
- ▶ Ex zone 1
- ▶ Radio remote operated
- ▶ DNV product certificate
- ▶ Documentation package



Range of 3D motion compensated cranes, both complete and add on units, for safe offshore load handling.

- ▶ Cranes ▶ Winches ▶ Capstans
- ▶ Net drums ▶ Anchor Windlasses & winches
- ▶ Trawl and Purse Seine Winches ▶ Net Sounder
- ▶ Hydraulic power units (HPU)

Foldable cranes

Techano represent well recognized manufacturer of high quality folding cranes with a wide range of standardized cranes for offshore and marine use.

► Foldable cranes ► Knuckle boom cranes ► Telescopic cranes ► Cherry pickers

All cranes are optimized for the marine environment and can be fully certified by recognized classification societies.



M 350.24A2

7100 Kg 4.5 m

M 350.24A3

6750 Kg 4.6 m

M 350.24A4

6400 Kg 4.7 m

M 350.24A5

6100 Kg 4.8 m

M 350.24A6

5825 Kg 4.9 m

4875 Kg 6.3 m	3700 Kg 8.1 m
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4575 Kg 6.4 m	3425 Kg 8.2 m	2750 Kg 10.0 m
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4300 Kg 6.5 m	3175 Kg 8.3 m	2500 Kg 10.1 m	2075 Kg 11.9 m
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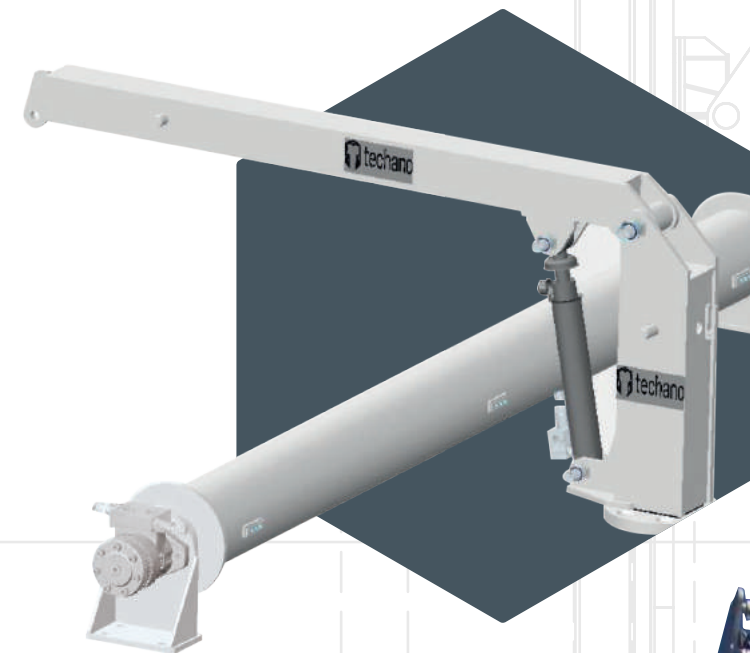
4050 Kg 6.6 m	2950 Kg 8.4 m	2300 Kg 10.2 m	1875 Kg 12.0 m	1575 Kg 13.8 m
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3850 Kg 6.7 m	2750 Kg 8.5 m	2100 Kg 10.3 m	1675 Kg 12.1 m	1400 Kg 13.9 m	1225 Kg 15.7 m
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WWW.IGUERRA.COM

TECHANO has designed and delivered numerous ship set of the following handling equipment, made in aluminum.

► Aluminium davit cranes ► Aluminium anchor winches ► Aluminium rescue net systems, crane and net drum



Prepared for transport



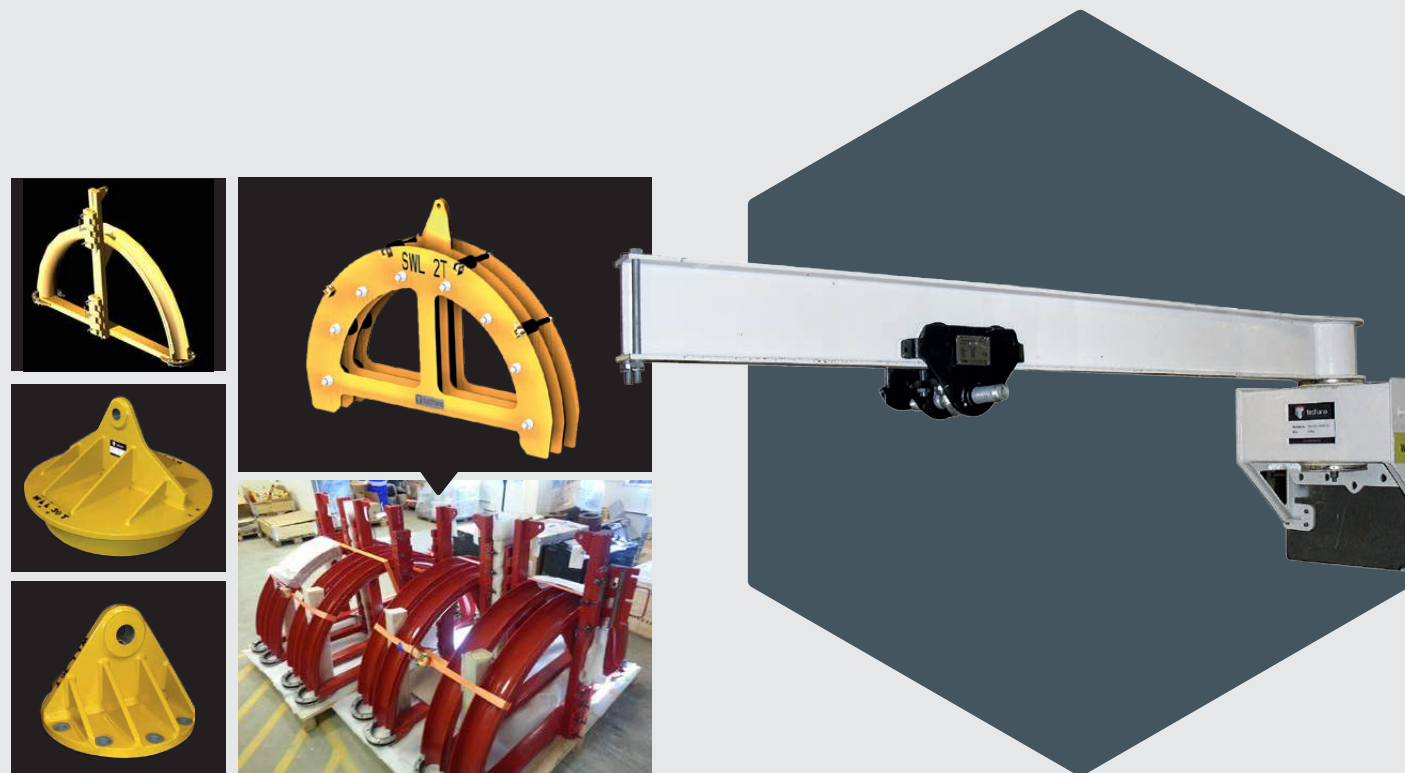
Winches

- Subsea winches with active heave compensation
- Lifting winches
- Dual drum winches
- Guideline winches
- Tugger winches
- Manrider winches



Offshore material handling equipment

- Manual service beams
- Trollies
- Umbilical hang off saddles
- Riser hang off flanges
- Lifting arrangements
- Lifting beams
- Umbilical roller sheaves



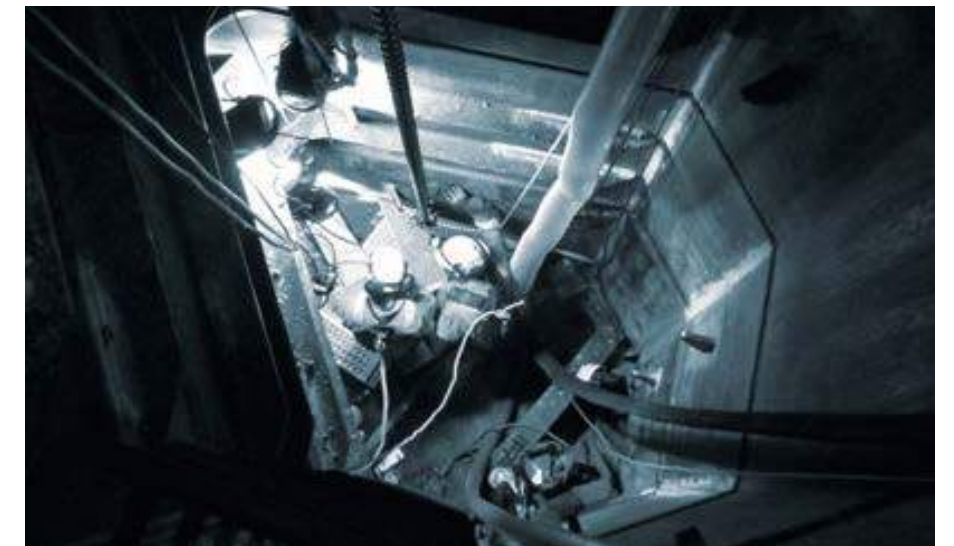
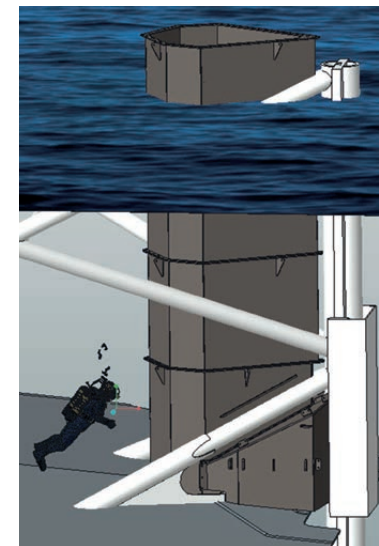
Crane rest

The Techano design team took the challenge of delivering a custom made, dual function 250 t crane rest for Cargotec Norway with installation on Havila Phoenix.



Cofferdam

Sometimes we are presented with a task that sounds impossible at first. Within a period of 15 days, we solved the complex challenge of designing, manufacturing, mobilizing and demobilizing a cofferdam to lay a dry weld, seven meters below the sea level.

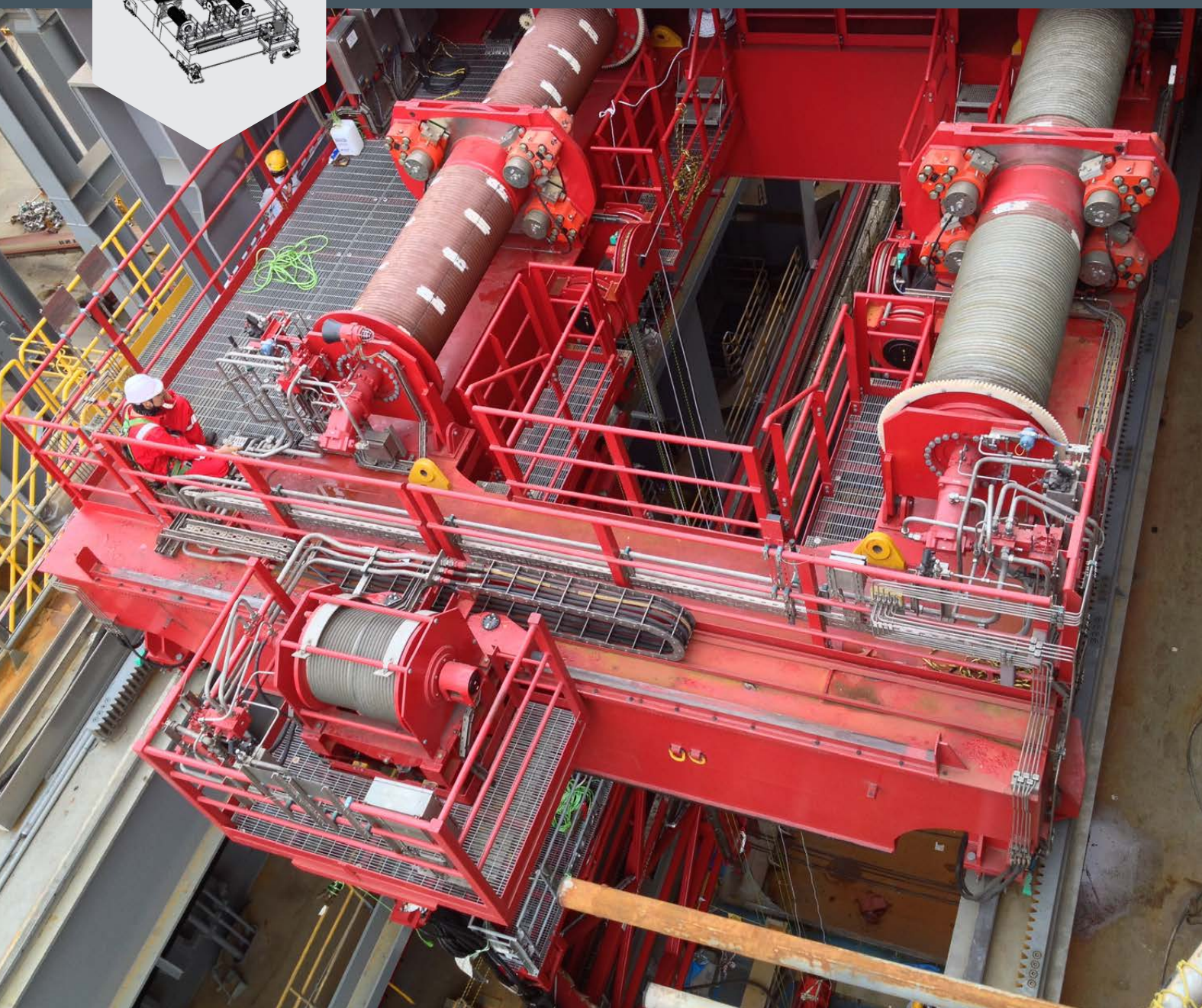
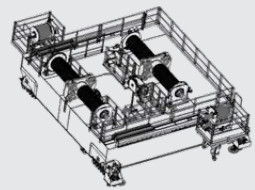


010 DESIGNWORK

Techano deliver design work and engineering for various customers.

- Design package ► Studies ► Taylor made solutions ► Modification on existing equipment/structure
- Structural calculations ► Consultants services

The best tools and the best brains in the business!
Highly skilled and experienced developers with your best interest in mind.
Satisfied customers is the only option.



011 CLIENTS AND PROJECTS

MacGregor RoRo, Göteborg

Design of 210T winches for naval ship to ship transfer ramps.
Winches produced at MacGregor Offshore in Kristiansand. Project discussed at www.node.no.
MacGregor Offshore, Kristiansand
Design support of 200T/2500m crane winch
Technical sale support
Designed spooling device for 150T HWC Crane
Delivery of booklock for 250T AHC Crane
Delivery of Crane w/wire guide for 250T AHC Crane

MHWirth

Design of pipehandling equipment
Design of test equipment for loops
Design of 500T BOP Crane
Delivery of 1.5T@5m, Telescopic Material Handling Crane
Delivery of 4T@5.5m, Telescopic Material Handling Crane
Umbilical Hang off Flanges

UMOE

Aluminium deck cranes for wave craft

Hydro

Load handling equipment
Delivery of service rig for electrode handling
Delivery of service cover for cleaning of melting furnace

MacGregor Pusnes, Arendal

Structural calculations in general
Redesign of deck machinery
Concept development
Delivery of Lifting Yokes for equipment handling

Båtservice AS

15 shipsets of aluminum deck machinery

Siem Offshore, Kristiansand

Delivery of service beams

Viking Development group

Design of deck equipment for a Dredger vessel

Standard Norge

Production of drawings to support and visualize elements of revised Norsok R-002.
Representative in the technical comitee developing the latest Norsok R-002, Lifting Equipment.

Ingenium

Riser Hang off flanges

Future Production

Structural calculations on various products

Tratec Offshore

Developing work packages for class of Vessel/Rig

Van Aalst Marine & Offshore B.V.

3D active heave compensated (AHC) crane
Development of motion compensated gangway and crane

Yantai CIMC Raffles offshore ltd / Nordlaks

Rail mounted service units with cranes & Capstans
Offshore cranes

Equinor / AF AeronMollier / Kværner

Delivery of winch package consisting of
5t Utility winches
4.5t Guideline winches
4.5t Podline winches

Blue Python

Containerized subsea crane



"I wanted nothing else than to make the object as perfect as possible."

– Erno Rubik



For more information
please visit **techano.no**



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TECHANO AS

VIGE HAVNEVEI 111  4633 KRISTIANSAND
(+47) 4720 4200  WWW.TECHANO.NO