

# INNOVATIVE OFFSHORE SOLUTIONS

BULK LOADING STATIONS

REELS

SHEAVES



 **hymek**

[www.hymek.no](http://www.hymek.no)

- we make the *reel* thing

# DESIGN - ENGINEERING - PRODUCTION



Hymek AS was established in 2004 and is located in Egersund, south-west Norway. Core business is design, engineering, product development and production of reels for the offshore market.

We offer custom designed Bulk Loading Stations, Reels, Combi Reels, Sheaves, HPU's and related products. We use known technology in new design with high focus on product innovation. To ensure high quality products we perform simulations, analyses and testing at our facilities in Egersund.

Our competence is within hydraulics, mechanics and corrosion free materials. We work according to ISO 9001-2000 and the company is approved in Achilles Vendor System.

We use field proven components and design systems and equipment based on known technology in new design.

Our in-house engineering- and production teams are ready to meet your specifications and requirements.

## FACILITIES

Our facilities comprise:  
3500 sqm production facilities.  
300 sqm modern office facilities.  
90 m deep water quay, depth 17 m.



# BULK LOADING STATIONS

CUSTOM DESIGN TO **FIT**  
**YOUR REQUIREMENTS**



Hymek designs and produce the new generation Bulk Loading Stations for the offshore industry.

## BULK LOADING STATIONS KEY ADVANTAGES:

- Low weight
- Extensive use of Polymer
- Corrosion free
- Integration of HPU
- Radio remote control
- Spooling device



Twin reel with spooling device and HPU.  
Client: **OAS. KNUTSEN**



Triple reel with integrated HPU.  
Client: **Aker MMO / ExxonMobil**

# BULK LOADING STATIONS

# HOSE ARRANGEMENT

SMART SOLUTIONS  
LOW MAINTENANCE



## TECHNICAL SPECIFICATIONS

We offer Bulk Loading Stations for 2", 3", 4", 5" and 6" hoses in multiple configurations to suit the clients requirements and specifications.

|                    |  |
|--------------------|--|
| Standards:         | 2006/42/EC R002, R001, Norsok M-101, DNV-OS-D101, DNV-OS-D201, DNV-OS-E101, Norsok S-002, NWEA |
| Safe zone:         | Zone 01 and Zone 02  |
| Pressure rating:   | WP 20 bar  |
| Swivel:            | SS316L ball bearing support  |
| Bend:              | 90° SS316L   |
| Compensator:       | Rubber w/ 150# RF  |
| Power consumption: | 4 Kw   |
| Pull force:        | 2.500 kg   |
| Brake:             | NC 2.000 kg  |
| Speed:             | 0 - 25m min.   |
| Noise:             | Max 80 dBA   |
| Drive:             | Electrical or hydraulic w/ planetary gear  |
| Electrical motor:  | IP 56  |
| Instruments:       | IP 66  |
| Reel capacity:     | 40 - 120 m   |
| Weight:            | 8 reels with hoses 12 tonnes   |
| Frame:             | Stainless steel SS316L   |
| Enclosure:         | Composite  |
| Rig installation:  | Cerified for lifting internally on rig   |



Complete hose arrangement fitted to Hymek's Bulk Loading Station delivered in cooperation with leading hose suppliers. Offshore hoses and valves suitable for diesel, oil, potwater, liquid mud, cement, bentonite, barite, brine, drillwater, slope to/from the rig and supply vessel.



### 1 DRY DISCONNECT COUPLINGS

|             |                    |
|-------------|--------------------|
| Materials:  | SS316L/ CS         |
| Dimensions: | 2", 3", 4", 5", 6" |
| Threads:    | BSP, NPT, ANSI     |
| Seals:      | FPM, EPDM, NBR     |
| WP          | 10 - 25 bar        |



### 2 HAMMER LUG UNIONS

|             |                    |
|-------------|--------------------|
| Materials:  | CS                 |
| Dimensions: | 2", 3", 4", 5", 6" |
| Threads:    | NA                 |
| WP          | 200 bar            |



### 3 BREAK-AWAY COUPLINGS

|             |                    |
|-------------|--------------------|
| Materials:  | SS316L/ CS         |
| Dimensions: | 2", 3", 4", 5", 6" |
| Threads:    | BSP, NPT, ANSI     |
| Break load: | 30 - 90 kN         |
| WP          | 10 - 25 bar        |



### COMPENSATOR

|             |                    |
|-------------|--------------------|
| Materials:  | SS316L/ CS         |
| Dimensions: | 2", 3", 4", 5", 6" |
| Threads:    | ANSI #150RF        |
| WP          | 25 bar             |
| Rubber:     | EPDM, NBR          |



### SWIVELS

|             |                          |
|-------------|--------------------------|
| Materials:  | Aluminium, Brass, SS316L |
| Dimensions: | 2", 3", 4", 5", 6"       |
| Threads:    | ANSI #150RF              |
| WP          | 25 bar                   |
| Bearing:    | Ball bearing             |
| Rotation:   | 5 Rpm                    |

\* Hoses available in total length up to 120 m.

RIG CONNECTION

25 m\*

20 m\*

15 m\*

VESSEL CONNECTION



Hose for MEG

Hose for Potwater

Hose for Diesel



## REEL FOR COILED TUBING OPERATIONS

Materials: SS316L  
Drum capacity: 160m of 1" hose  
Swivels: From 1 to 14 passage thru bore  
WP: Up to 5.000 PSI  
Drive: Hydraulic or Electrical



## ACCUMULATOR SKID

Materials: SS316L  
Accumulator volume: 20 liters  
Accumulator type: Bladder  
Pressure: 10.000 PSI



## UMBILICAL REEL

Materials: CS, SS316L  
Drum capacity: 600m of Ø150mm umbilical bundle  
Swivels: High pressure swivels, electrical slipping, air swivels  
WP: Up to 15.000 PSI  
Drive: Hydraulic or electrical



## SUBSEA DEPLOYMENT BASKET

Materials: SS316L, Composite  
Foldable ROV panels  
Dummy plates for ROV parking  
Dedicated storage area for electrical leads



## COMBI REEL

Materials: SS316L  
Drum capacity: 650m of 1" hose  
Swivels: High pressure swivels  
WP: Up to 15.000 PSI  
Drive: Hydraulic or electrical  
HPU (air or electrical driven)  
Built in level wind



## SHEAVE FOR UMBILICAL

Materials: SS316L, POM  
Quick hose installation and release  
Changeable umbilical entrance angle  
Low frictions rollers



### **HYMEK AS**

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