

RSS JAMES COOK

UNOLS 2009

ODIM

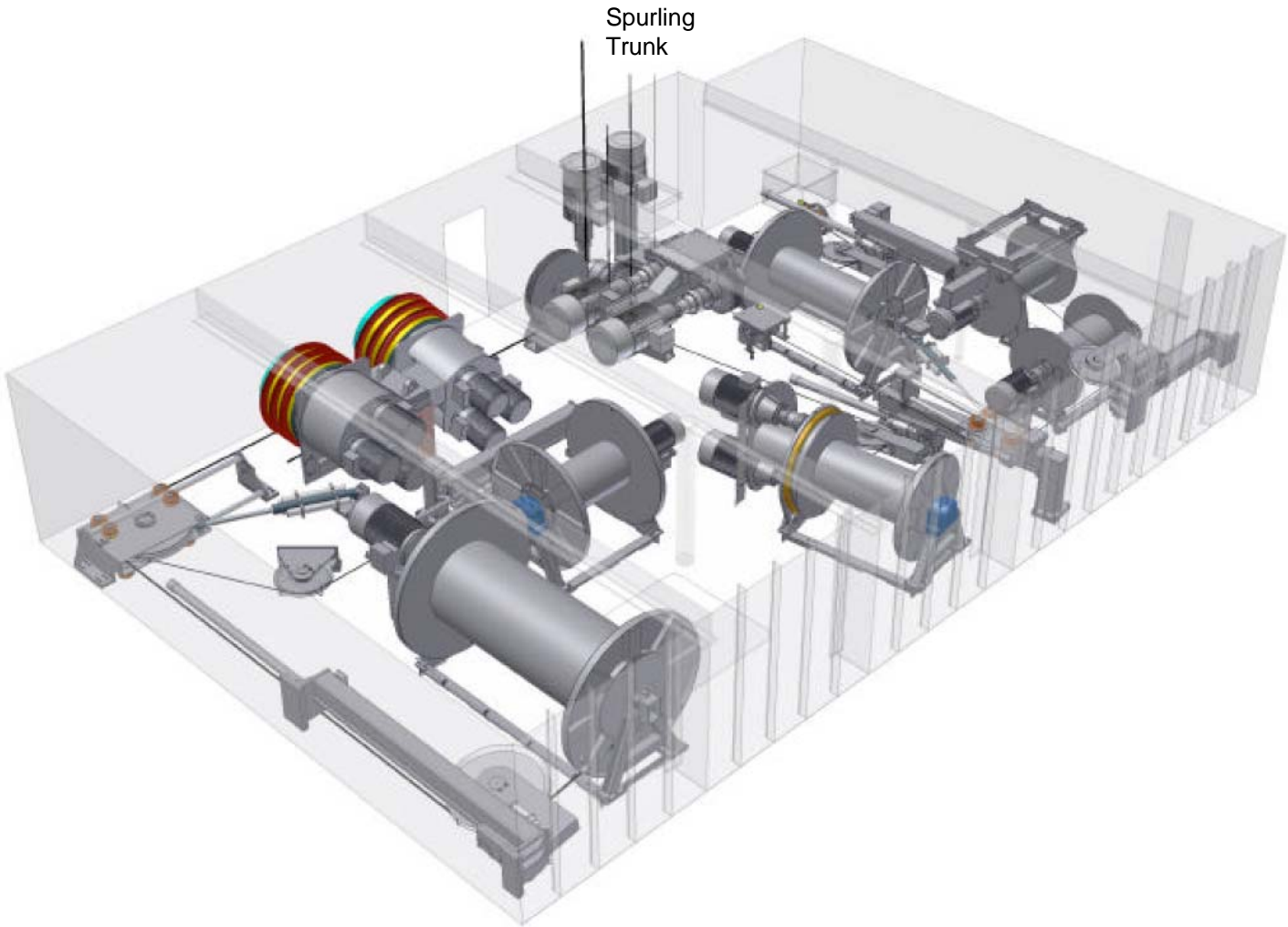
**DEEP
KNOWLEDGE**



RRS James Cook delivered 2006



Winch room arrangement RRS James Cook



Trawl system

- ✓ Trawl storage winch
- ✓ Trawl winch spooling device
- ✓ Trawl traction winch
- ✓ Trawl damper unit

Electric motors:

- Liquid cooled design
- Frequency controlled

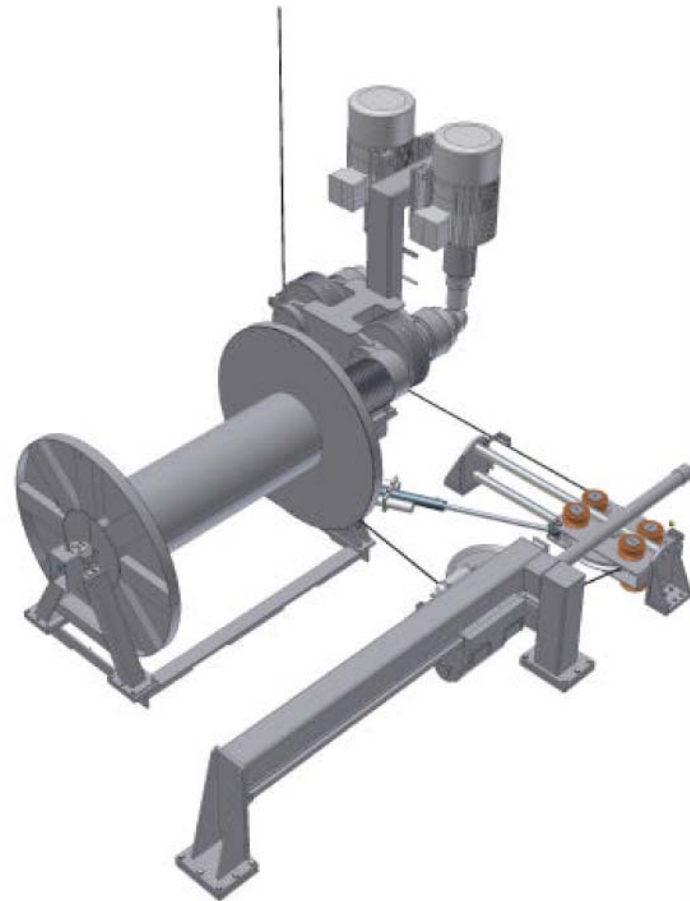
Drum

- Lebus
- Capacity of 15000m wire
(14,5/16,5/18mm)

Max line speed 2m/s

Max line pull:

- storage drum, 2 Te @ 1 m/s
- traction winch, 12,5 Te @ 1 m/s



Deep tow and deep water coring system

- ✓DT Storage Winch
- ✓DT Winch Spooling Device
- ✓DT Steel Armoured Electro-Optical Cable
- ✓DWC Storage Winch
- ✓DWC Winch Spooling Device
- ✓DWC Synthetic Rope (Plasma)

- ✓DT/DWC Damper Unit
- ✓DT/DWC Traction Unit (CTCU)
- ✓DT/DWC Cable Counter

Electric motors:

- Liquid cooled design
- Frequency controlled

Drum DT

- Lebus fitted
- Capacity of 10000m wire (17,3mm)
- Focal slip ring

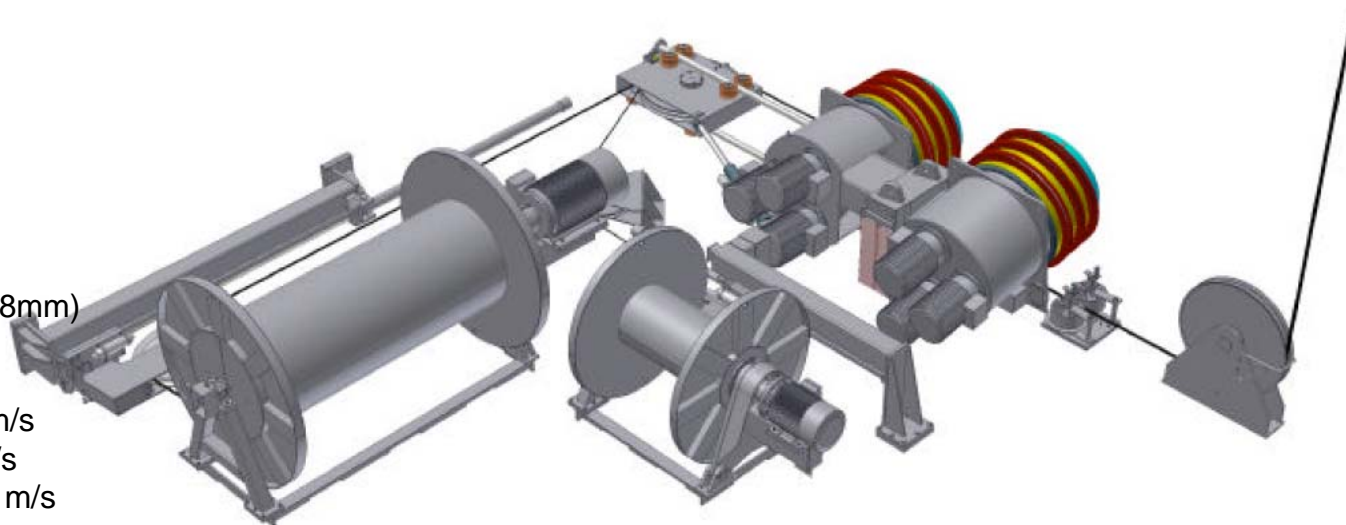
Drum DWC

- Capacity of 8000m rope (28mm)

Max line speed 2m/s

Max line pull:

- Storage drum, 1,5Te @ 2 m/s
- Storage drum, 5Te @ 1 m/s
- Traction winch, 20 Te @ 1 m/s



CTD system

- ✓ CTD Storage Winch
- ✓ CTD Winch Spooling Device
- ✓ CTD Traction Winch
- ✓ CTD Damper Unit
- ✓ CTD Cable Counter
- ✓ CTD Steel Armoured Electro-Optical Cable

Electric motors:

- Liquid cooled design
- Frequency controlled

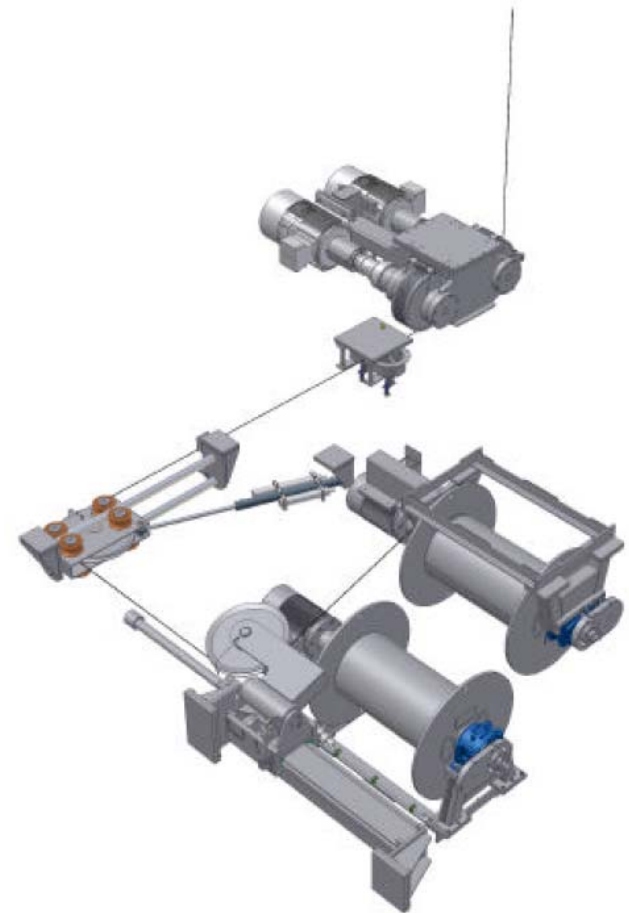
Drum

- Lebus fitted
- Capacity of 8000m cable (11,43mm)
- Focal slip ring

Max line speed 2m/s

Max line pull:

- Storage drum, 1 Te @ 2 m/s
- Traction winch, 5 Te @ 1 m/s



Coring system

- ✓ Coring Winch, Direct Pull
- ✓ Coring Winch Spooling Device
- ✓ Coring Winch Steel Wire Rope

Electric motors:

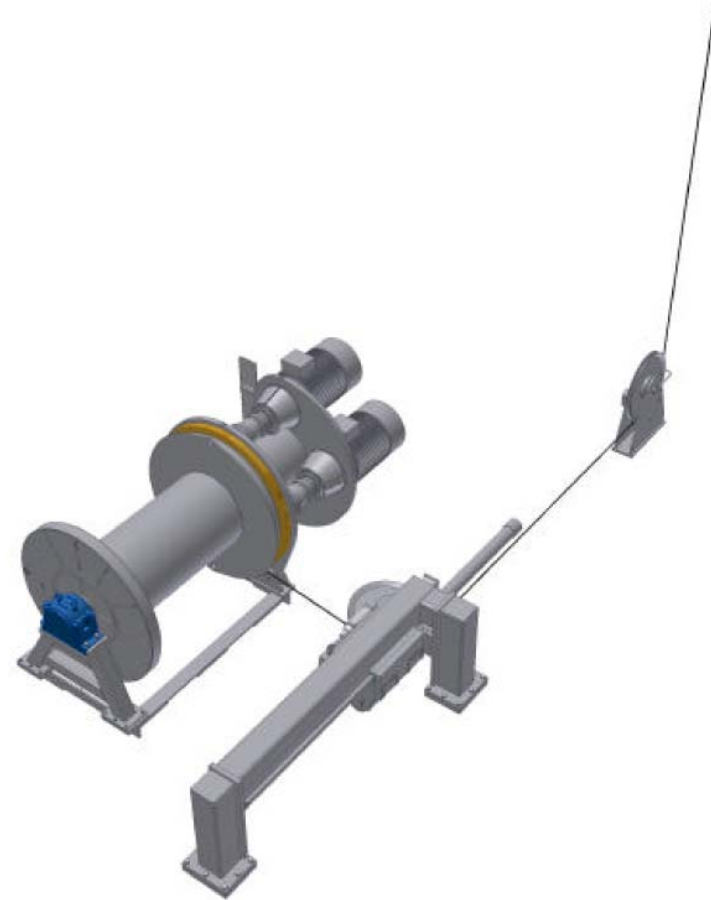
- Liquid cooled design
- Frequency controlled

Drum

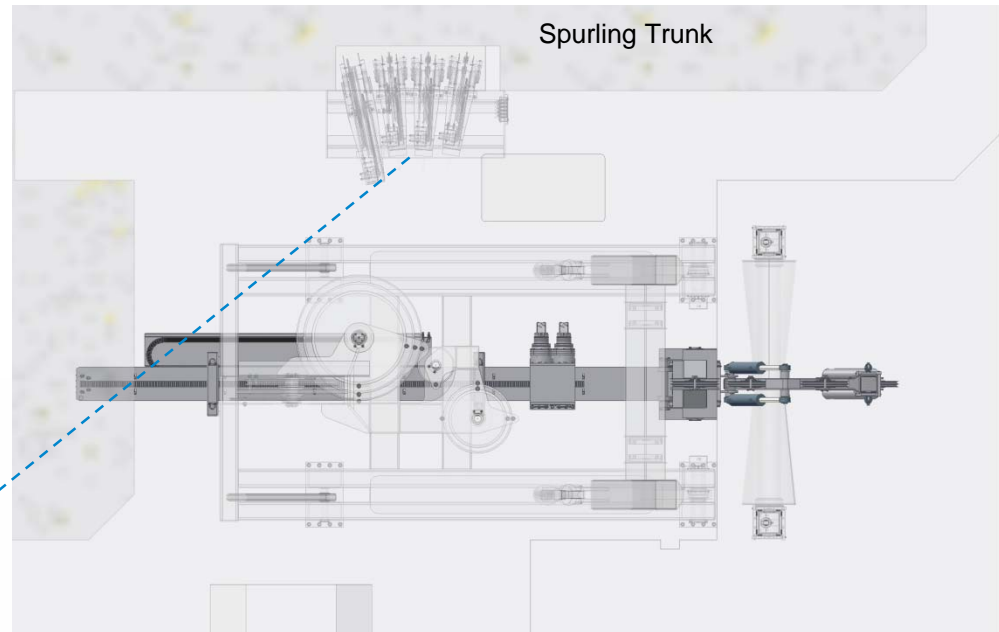
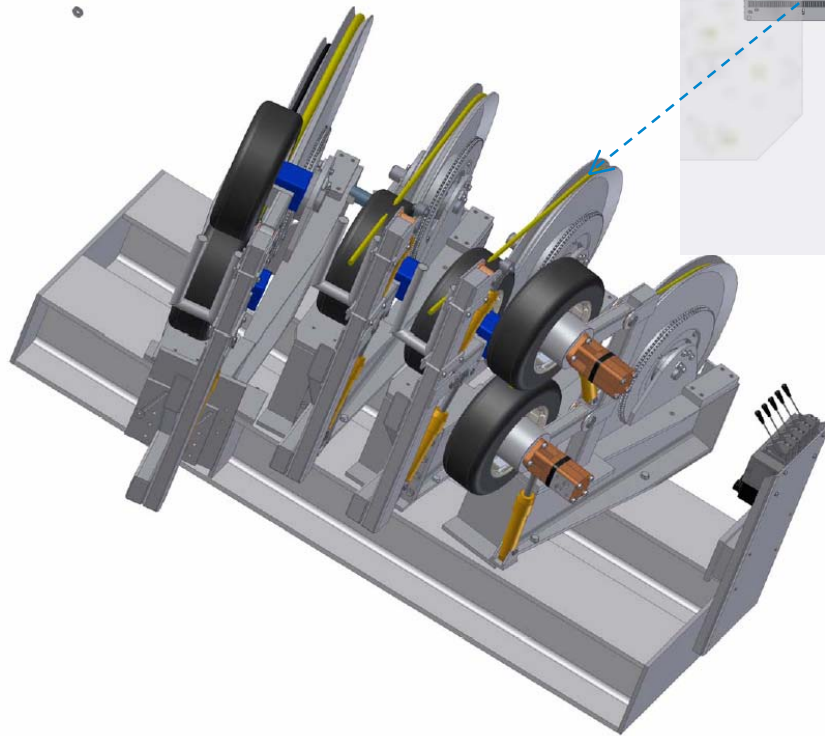
- Lebus fitted
- Capacity of 7000m wire (16,5mm)

Max line speed: 2m/s

Max line pull: 11 Te @ 1 m/s



Outhauler unit



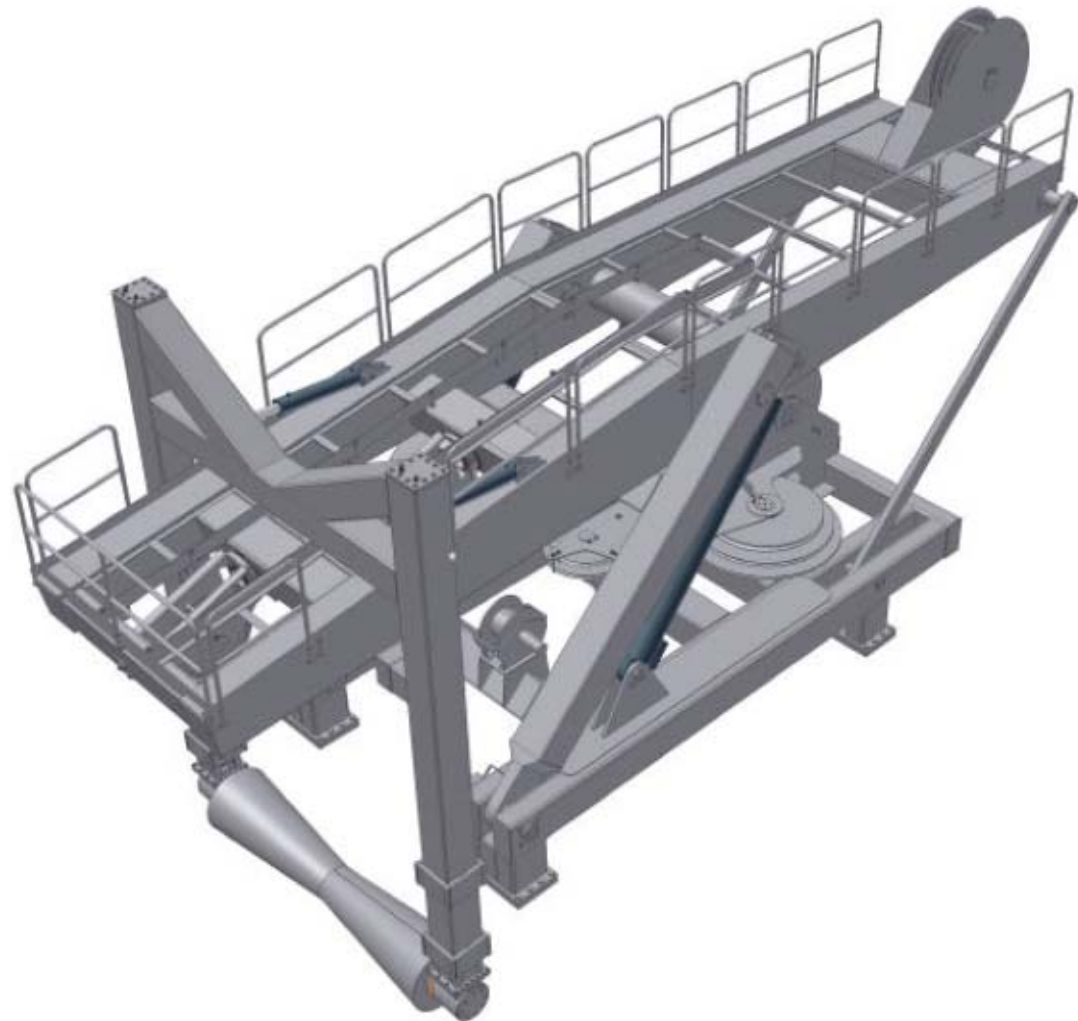
Top view

Stern A-frame



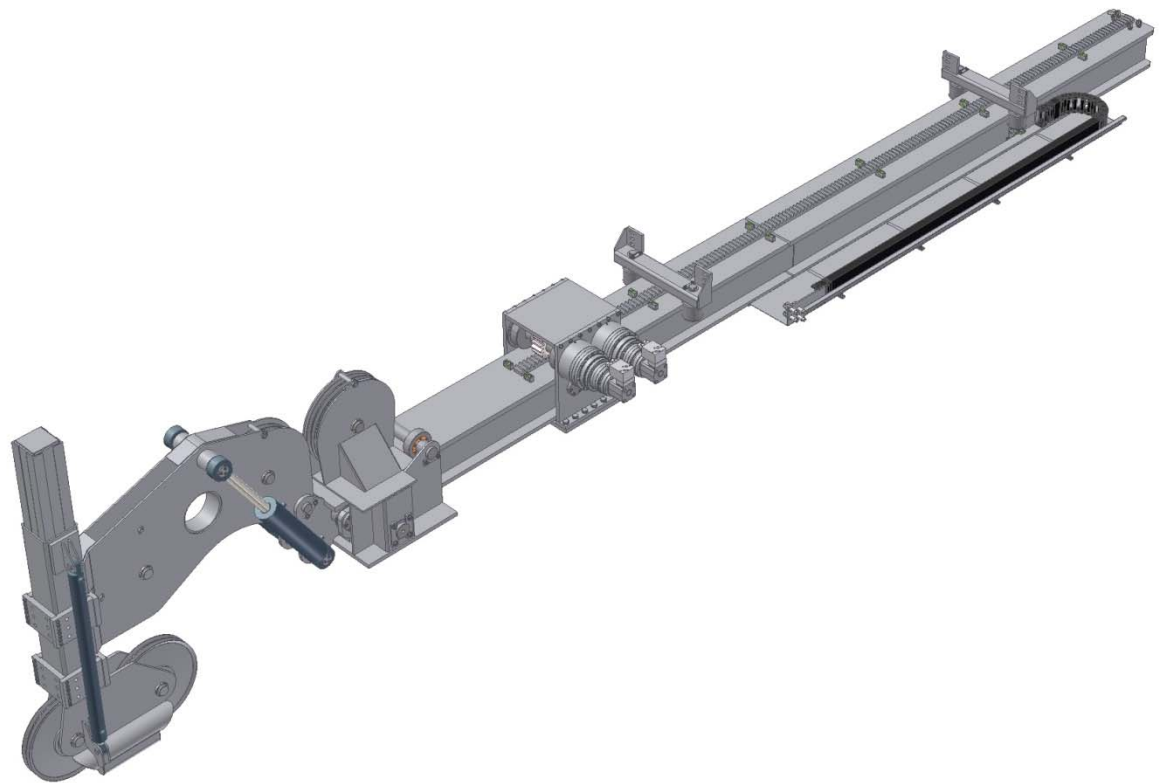
- ✓SWL 30T
- ✓Outreach 4,5m
- ✓Clear lifting height 8m
- ✓Width between legs 9,5m
- ✓Aux towing eyes 5T
- ✓Aux winches 5T / 100m

Parallelogram frame



- ✓SWL 20T
- ✓Outreach over side 2,5m
- ✓Secondary load 4,5m/12T
- ✓Lifting height deck 5m
- ✓Eye plates 2 x 5T
- ✓Aux winches 5T / 100m

Hydro Boom



- ✓SWL 5T
- ✓Outreach over side 5m
- ✓Deployment speed: 0.5 m/s (maximum)

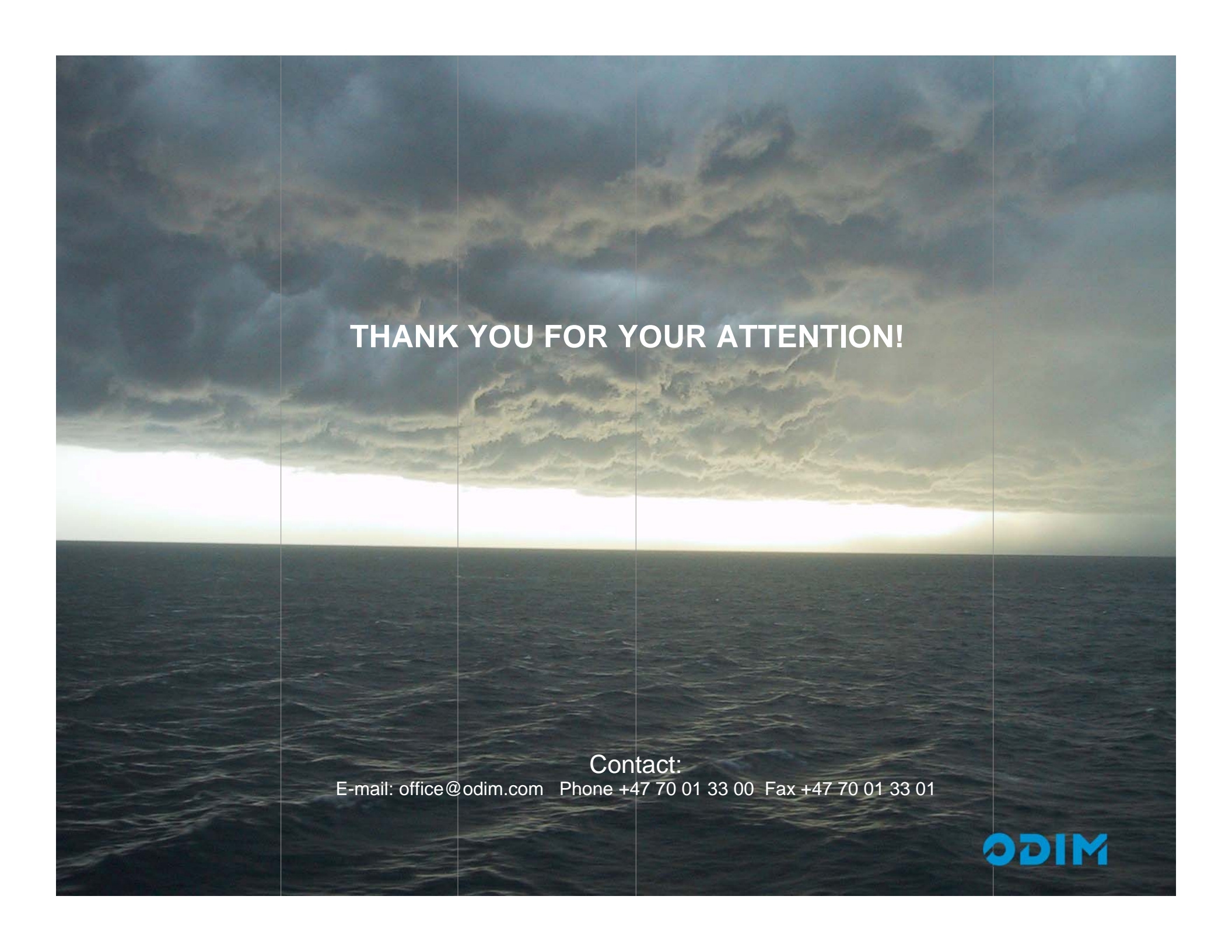


Operator Interface

▶▶ Important Features

- ▶ Graphical user interface
 - ▶ Detailed system status information
 - ▶ Monitoring
 - ▶ Trending
 - ▶ Alarm Handling
 - ▶ Interface to ships network
- ▶ Main control panels
 - ▶ Operator station in the control rooms
 - ▶ Radio remote for operation on deck
- ▶ Emergency operation panels
 - ▶ All equipment can be operated locally, even if the main control system is unavailable





THANK YOU FOR YOUR ATTENTION!

Contact:

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