

STORK

# ADVANCED ONLINE DESANDING

THE *NEXT GENERATION* IN SAND MANAGEMENT

ASSET INTEGRITY PARTNER

[www.stork.com/aod](http://www.stork.com/aod)

Dealing with contaminated sand build up in separators is an old problem in need of a new solution. Offshore, sand and salt in vessels reduces efficiency, corrodes equipment and can lead to production loss. Traditional de-sanding methods often involve platform shutdown and dangerous, back-breaking work.

**BUT, STORK HAS A SMARTER SOLUTION.**

Stork's Advanced Online Desanding (AOD) system, now in its 3rd generation, sets a new standard for sand management that's safe, environmentally friendly and cost effective. AOD removes sand from live production separators efficiently and safely avoiding platform shutdown and maintaining production while reducing environmental impact.

# SMARTER SAND MANAGEMENT

Stork's AOD system removes and cleans sand from live separators without causing undue process disturbance or production loss ready for safe overboard discharge. Combined with a wider waste management package, Stork can deliver a fully integrated, preventative maintenance plan and sand management service.

Using a thermographic camera, Stork determines sand accumulation in an online separator. Sand is then removed, cleaned and discharged back into the sea with no deferred production.

Desanding systems are not new but Stork has raised the bar - to 60 Bar separator pressure to be exact - and in 90°C temperatures. AOD is not just tough but fast, capable of removing and washing twenty tonnes of sand per day. With solids separation effective for minute particle sizes - 10 to 500 microns, AOD is also highly precise.

AOD ensures offshore sand disposals are in line with environmental discharge limits while eliminating the cost of onshore waste clean-up. Oil contamination from recovered solids is removed to less than 1% oil content prior to overboard discharge and costs of onshore clean-up are therefore eliminated.

# SAND BUILDING UP?

**20** Tonnes

AOD removes up to **20 tonnes** of sand per day from online separators at up to 60 bar pressure and in 90°C temperatures.



# BENEFITS

## SPACE

Small and light, the mobile units require 30m<sup>2</sup> and can even be safely stacked to further reduce footprint.

## TEAM

Five-strong offshore crew requiring less helicopter seats and bedspace onboard platforms.

## COST

Workscopes delivered more quickly than traditional methods (7 days), minimising shutdown costs.

## SAFETY

Absence of confined space entry reduces physical exertion and exposure to harmful chemicals.

## PERFORMANCE

Reduce costly equipment downtime, enhancing performance to enable maximum efficiency and profitability.

## ENVIRONMENT

Sand cleaned and safely returned to sea, reducing environmental impact and avoiding onshore disposal.

## PREVENTION

Preventative approach to sand management eliminates unplanned shutdowns.

## OPERABILITY

ATEX compliant in Zone 2, designed to guarantee safe connectivity and interoperability with existing infrastructure.

# TIME BETTER SPENT

## 7 Day Workscope

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AOD is a fast solution for removing large quantities of sand from live separators, avoiding platform shutdown.

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# TRACK RECORD

With over 30 years industry experience, Stork is a leading provider of sand management services. We have a proven track record around the world working with major industry players to safely deliver advanced online desanding worksopes.



Over 30 years' experience



More than 883 tonnes of sand disposed of since 2006



31 projects completed on 13 platforms



Global track record without incident or impact

All worksopes have been safely completed, without incident or environmental impact. Stork own and maintain our own fleet of specialist cleaning equipment in compliance with ISO and ATEX Standards. Our extensive inventory means we can mobilise at short notice, providing a solution to meet our client's specific needs.

# CLEAN AND GREEN

**<1%** Oil Content

Recovered solids cleaned to **less than 1%** oil content prior to overboard discharge. AOD returns washed sands safely to sea and avoids onshore disposals.



# ADDED VALUE

- **Our multi-disciplined** approach means fewer personnel, safer operations and a **cost effective** approach to every project
- Full range of **specialist cleaning** services with a **proven track record**
- Fully **compliant** with **industry standards** including ISO,WJA and ATEX

To provide further value, our services can be combined with other specialist cleaning services including:

- **High Pressure** and **Ultra High Pressure** Water Jetting
- **NORM Management** and **Disposal**
- Vacuum **Waste Removal**
- Full **Vessel Management**
- Chemical **Treatment**
- **Caisson Cleaning** and **Detailed Inspection**
- **UHP Cold Cutting**

This allows us to provide time and cost savings to clients while maintaining operational and safety standards.

# ARE YOU IN GOOD HANDS?

## 5 Men

Stork's experienced **5 man** AOD delivery team complete sand management operations, requiring less helicopter seats and bedspace onboard.



# SAFETY IS OUR CORE VALUE

REACH Beyond Zero is our vision to activate everyone to REACH further, to think and do more to improve our HSEQ culture and performance.

As an organisation we REACH Beyond Zero by functioning as one team, with shared values driving action to transform our HSEQ culture and performance.

The REACH Beyond Zero vision is our catalyst to impact thinking, provide direction and to stimulate action for positive and lasting change at Stork. REACH Beyond Zero provides a communication platform to strengthen our HSEQ culture, connecting all activities to raise visibility, add value and drive continual improvement at all levels.

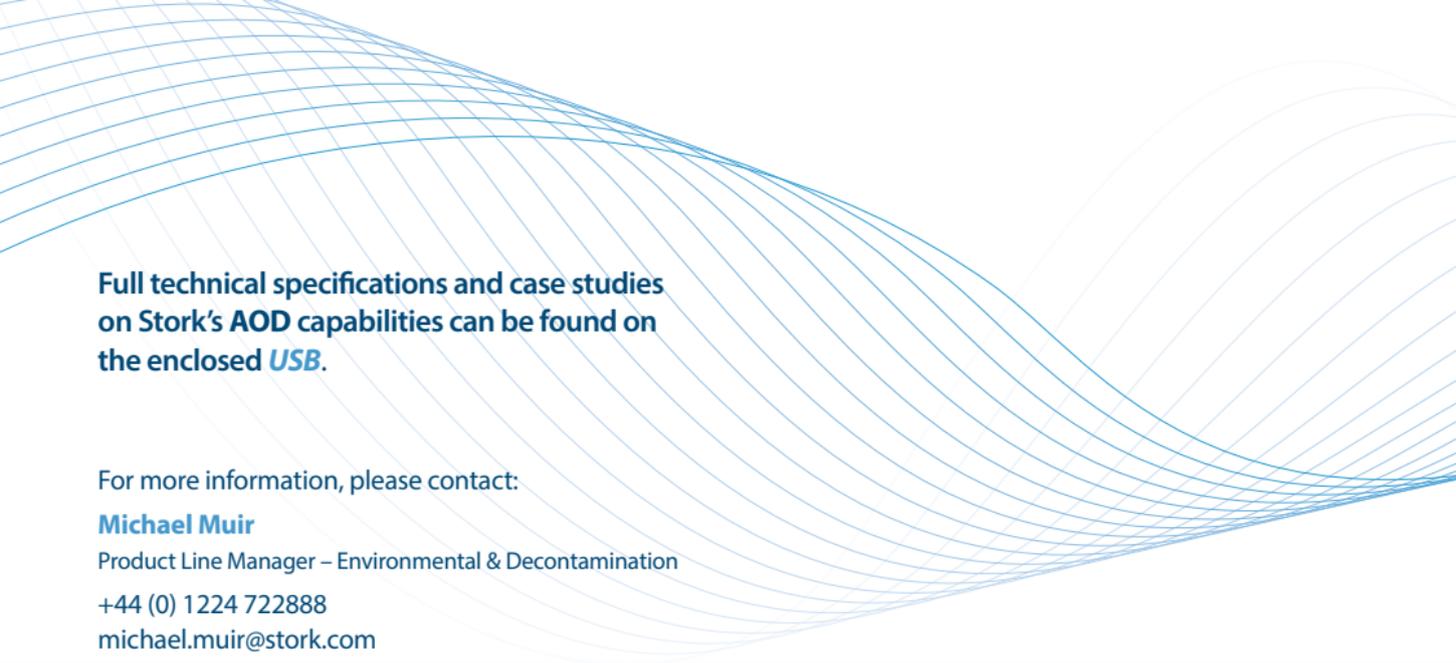
Our innovative programme, REACH Beyond Zero adds value for our clients by:

- 1 Engaging with and positively impacting their HSEQ culture
- 2 Improving HSEQ performance on their assets
- 3 Transparent HSEQ reporting
- 4 Enhancing communication through sharing information, lessons learned, best practices and alerts
- 5 Leading topical debate, discussion and knowledge-sharing

For more information visit the **Stork** website:  
[www.stork.com/reachsafety](http://www.stork.com/reachsafety)

The logo consists of four horizontal bars in purple, orange, green, and blue, stacked vertically. To the right of these bars, the word "REACH" is written in bold black uppercase letters, and "BEYOND ZERO" is written in bold blue uppercase letters below it.

**REACH**  
**BEYOND ZERO**



Full technical specifications and case studies  
on Stork's **AOD** capabilities can be found on  
the enclosed **USB**.

For more information, please contact:

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