

# ADVANCED ONLINE DESANDING

THE NEXT GENERATION IN SAND MANAGEMENT

## Q What onshore support is available?

Stork provides an operational onshore support team which includes a Desanding Technical Authority dedicated to all desanding operations. Furthermore, in-house design is supported by independent consultancies for design verification.

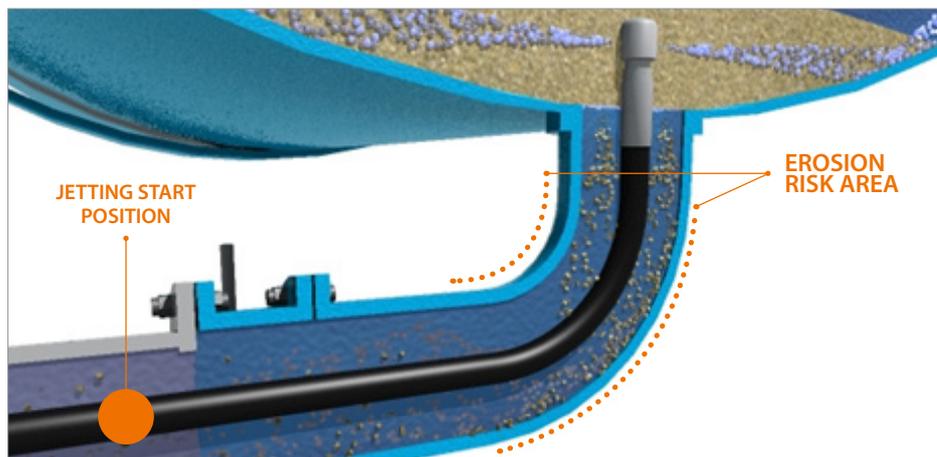
## Q What equipment support is available?

As part of any desanding workscope, all equipment is prepared, inspected, maintained and certified by Stork's dedicated team. In addition, desanding worksopes also include full logistics support from our specialist shipping group based in Aberdeen.

## Q Is there risk of erosion when inserting the jetting nozzle into the separator?

No cases of separator nozzle erosion have ever been reported to Stork.

There is potential risk of the jet impinging on the separator nozzle internal surface in the presence of sand. However, to mitigate such risk, Stork minimise fluid velocities in the risk area through separator nozzle. The design of the jetting nozzle supports jetting unit speed manipulation allowing the slurry to pass through the risk area as quickly as possible.



## BUT DON'T TAKE OUR WORD FOR IT!

"A well led and supervised team. Sometimes flexibility and excellence can be taken for granted, however, the team could be trusted to deliver results in a safe and responsible manner."

"During the turnaround, the team worked safely, efficiently and professionally and not only worked well within themselves, they have worked well with others also. In particular, the Supervisor was obviously very passionate and knowledgeable about his job and has been key in pulling the vessel cleaning scopes forward."

"I would like to compliment the attitude, work rate, vigilance, housekeeping and good working practices displayed while carrying out the task of removing paint coating from steelwork for inspection using the HP jetting unit. The standard of housekeeping was exemplary."



**Q We have a 'No Double Stacking' policy. How do you propose to work with this restraint?**

Stork commissioned an independent stability study which resulted in the use of proprietary 'ISO Block Locks' to secure the units together, installation of a bumper bar on the lower unit to guide the upper unit into position and fitting of a long sling set to the upper unit allowing disconnection from the crane from deck level.

To support these recommendations, we develop a lifting operation plan as well as lifting operation plan risk assessments.

**Q How many beds required, durations, equipment weights and footprints?**

Stork deploy an experienced 5-man desanding crew, requiring 5 beds (dayshift working). AOD is a fast solution, typically a 7 day workscope, removing up to 20 tonnes of sand per day. The equipment is small and light, with a footprint of 30m2 and total weight of 30 tonnes (dry) and 40 tonnes (wet).

S/N	Main Equipment	Length (m)	Width (m)	Height (m)	Weight (Kg)
1	High Flow Jetting Unit	2.44	3.10	2.44	7500
2	Solids Extraction Package - Ram (Optional)	2.9	0.6	0.6	615
3	Solids Extraction Package - Power Pack (Optional)	1.0	1.0	1.0	1000
4	Solid Collection Manifold - (Optional)	2.9	0.6	0.6	255
5	Solids Separation Package	2.44	3.10	2.44	3500
6	Solids Wash Tank	2.44	3.10	2.44	5000 (dry) 9000 (wet)
7	Recovered Liquid Tank	2.44	3.10	2.44	5000 (dry) 9000kg (wet)
8	Filtration Package	2.40	1.50	1.80	2000
9	Pump / filtration package	2.20	1.20	1.80	2000
10	Desanding Support Container	2.44	3.10	2.44	4000

"Thanks for another successful sand cleaning exercise. The job was carried out safely with >3 tonnes removed."

"The team have been forever helpful and worked to a high standard of safety ensuring all procedures and safe working practices were adhered to."

"The reports regarding the de-sanding work scope have been very positive."

"Excellent and professional job by the team. Also great response in the first instance in mobilising equipment & personnel at short notice."

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STORK'S ADVANCED ONLINE DESANDING IS THE NEXT GENERATION**