



# James Fisher Offshore

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Decommissioning

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## Decommissioning services

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James Fisher Offshore offer complete service capability in the cutting and removal of subsea and platform infrastructure.

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We combine knowledge, innovation and experience to provide engineering solutions, equipment and full project support for offshore and subsea operations.

James Fisher Offshore (JFO) is a fully embedded partner in the methodology and execution of our customers' decommissioning campaigns, utilising in-house expertise and assets to provide industry leading solutions.

## Global reach

With dedicated local resources, JFO is strategically positioned to react quickly to fully support the rapid mobilisation of offshore projects.

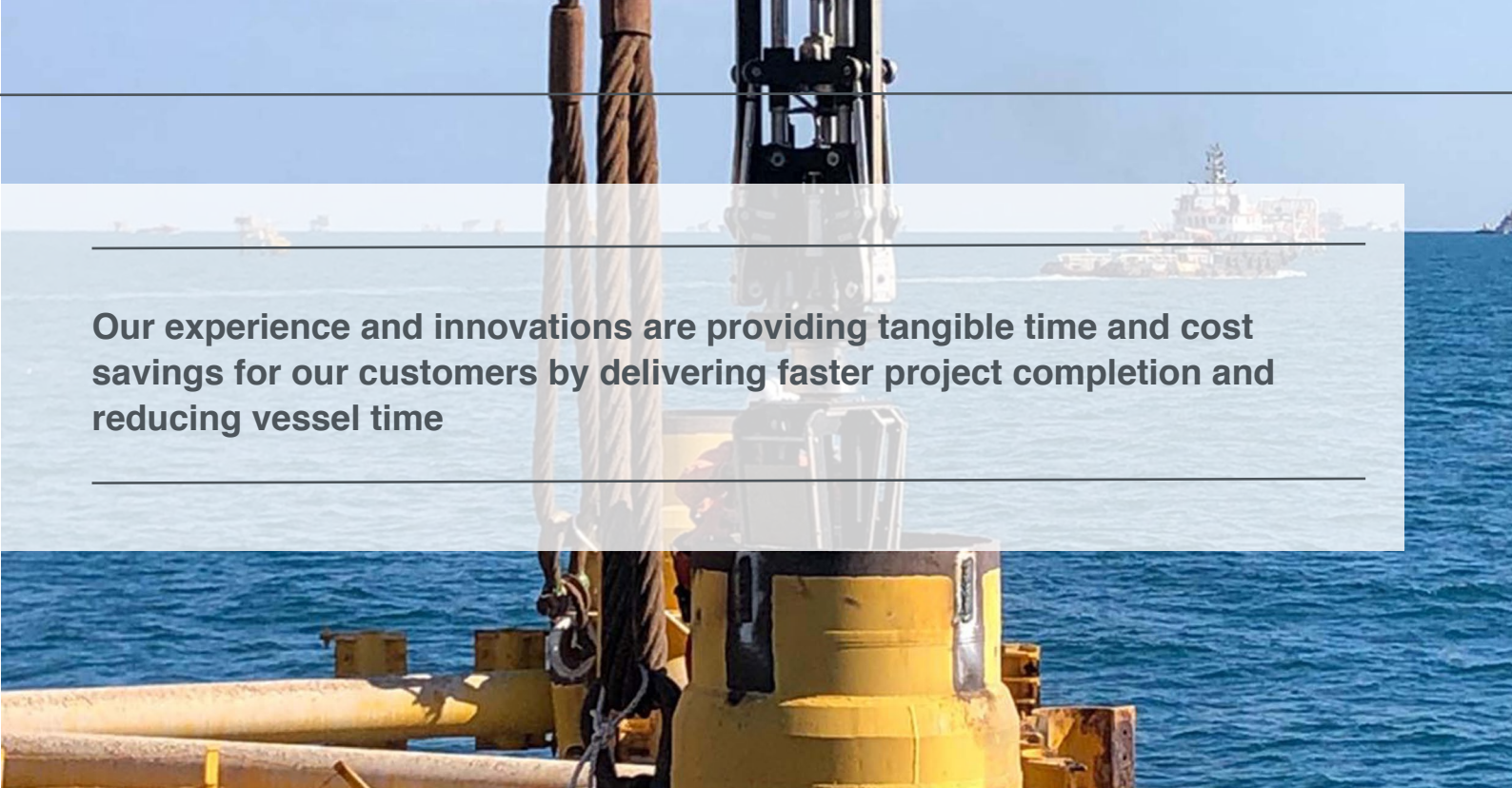




**JFO owns and operates the largest range of cutting equipment globally, suitable for subsea and topside decommissioning:**

- Support structures
- Wellhead protection structures
- Jackets
- Piles
- Pipelines
- Manifolds
- Flowlines
- Umbilicals
- Risers
- Bundles
- Mooring chains
- Met mast removal
- Multistring well casings
- Wellheads

**Our experience and innovations are providing tangible time and cost savings for our customers by delivering faster project completion and reducing vessel time**



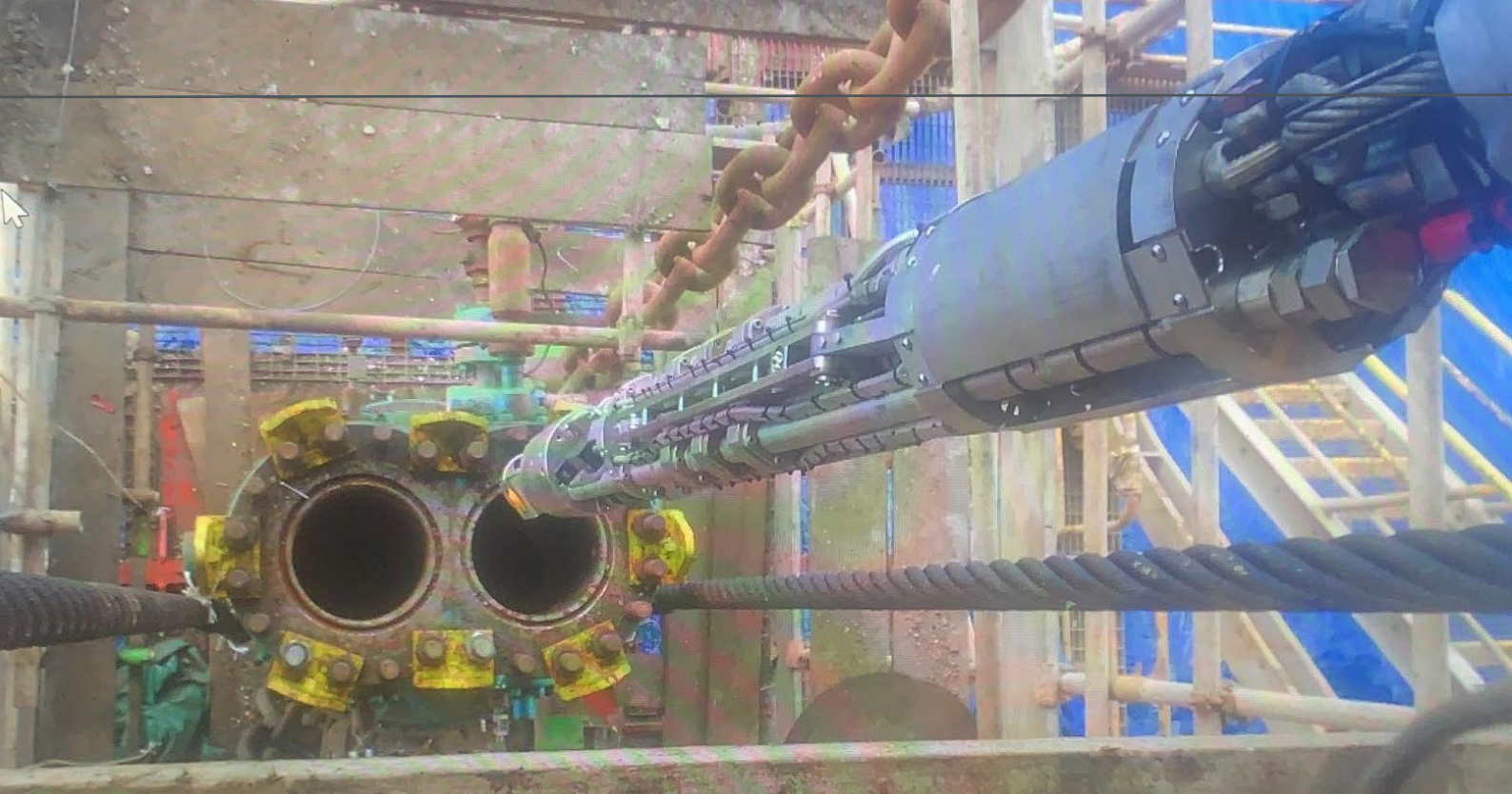
Our dedicated engineering and offshore teams understand the demands and challenges faced by our customers. We work with you to deliver against your specific requirements and provide complete support across the full life cycle of your offshore projects, enabling the work to be completed safely and efficiently.

JFO's team of dedicated offshore technicians, based in both the UK and Malaysia, provide local and international project support and can mobilise at short notice.

Having a compliment of personnel available globally enables us to make teams which consist of multi-skills, allowing for right first time delivery.







## Well Severance

Well Severance can be a high cost activity if the correct method, equipment and personnel competency is not selected.

JFO deliver a fully encompassed abrasive water jet cutting well severance service for both subsea and platform-based operations including drill, pin, lifting and mechanical services.

Using advanced ultra high-pressure technology and unique air flow delivery techniques, we can maintain water jet velocity at depths of up to 350 meters without dewatering or losing velocity across multi string well sections.

In addition to the proprietary water jet technology, our bespoke multi sensor cut verification is able to send real time data feeds back to the operator. A live 360° feed back is displayed in real time, allowing the operator to fully control the rotation speed, pressure at nozzle and when required, track back to any point on the cut line where any incomplete penetration has been indicated.

So as to ensure stability and deliver the unique features, our advanced water abrasive system is locked mechanically inside the well so as to achieve a full circular cut with no movement of the head. All of our down hole cutting heads have a stepless hydraulic locking mechanism which centralises and holds the unit firmly in place during operation.

## Structure Removal

JFO provide certainty, competency, reliability and experience throughout a project which gives our customers and partners confidence in the delivery schedule of projects.

Having developed our internal and external abrasive cutting technologies with the worlds best manufacturer and adapted that technology throughout our own bespoke deliver methods, we are able to offer a best in class range of services to any complex structure removal programme.

JFO has its own internal dredging business which has enabled us to provide our customers with a packaged solution for removing any problematic soil plug or external mud suctions, which could prevent a successful cut or lift being completed.

“ The JFO team have been nothing but helpful and professional throughout this job. Nothing was too much trouble and their knowledge and expertise of the cutting system was invaluable ”

ROV Supervisor, NPCC





## Proven track record

JFO delivers value to the global decommissioning landscape



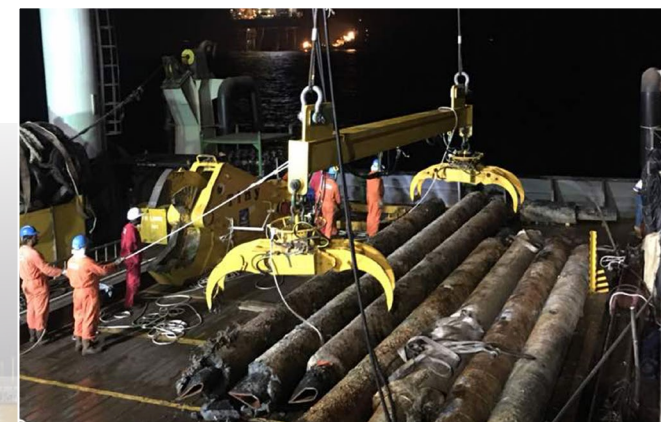
### Jacket removal, Saudi Arabia

- Ultra high pressure abrasive water jet internal cutting
- 360° cut monitoring system
- Piles cut 1.5m below seabed
- 70mm wall thickness piles cut in 16 minutes



### Well Severance, UKCS

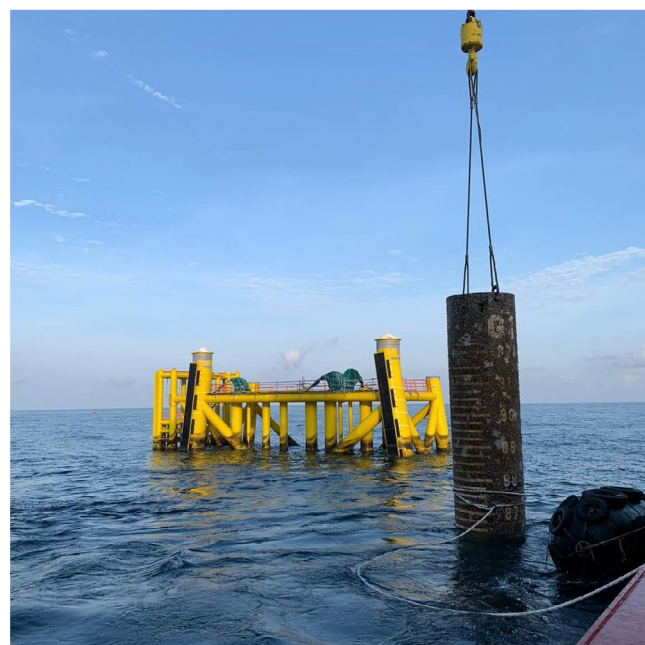
- 30" multi-string conductors complete with grouted annuls, cut 3m below seabed
- Expert offshore team for 24 hour operation



### Pipeline demolition, Saudi Arabia

- Pipeline shears for demolition
- Twin recovery grab
- Over 4,000km of 6" to 14" pipeline cut and recovered





### Jacket skirt pile, Malaysia

- Ultra high pressure external abrasive water jet cutting
- 87" @ 60mm WT jacket skirt pile cut and recovered
- Average cut time of 60-70mm per minute



### Jacket and pipeline removal, Thailand

- Cut and removal of subsea jackets and associated pipelines for asset retirement and the regions first 'Rigs to Reef' campaign
- Cut and removal of risers and subsea spools
- Soil plug removal







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**UK**

T: +44 (0) 1651 873932

E: [info@fisheroffshore.com](mailto:info@fisheroffshore.com)

**Malaysia**

T: +60 197 228 744

E: [jfoasia@fisheroffshore.com](mailto:jfoasia@fisheroffshore.com)

**Americas**

T: +1 713 466 1233

E: [jfoamericas@fisheroffshore.com](mailto:jfoamericas@fisheroffshore.com)

**Middle East**

T: +971 58 2198684

E: [jfomiddleeast@fisheroffshore.com](mailto:jfomiddleeast@fisheroffshore.com)

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