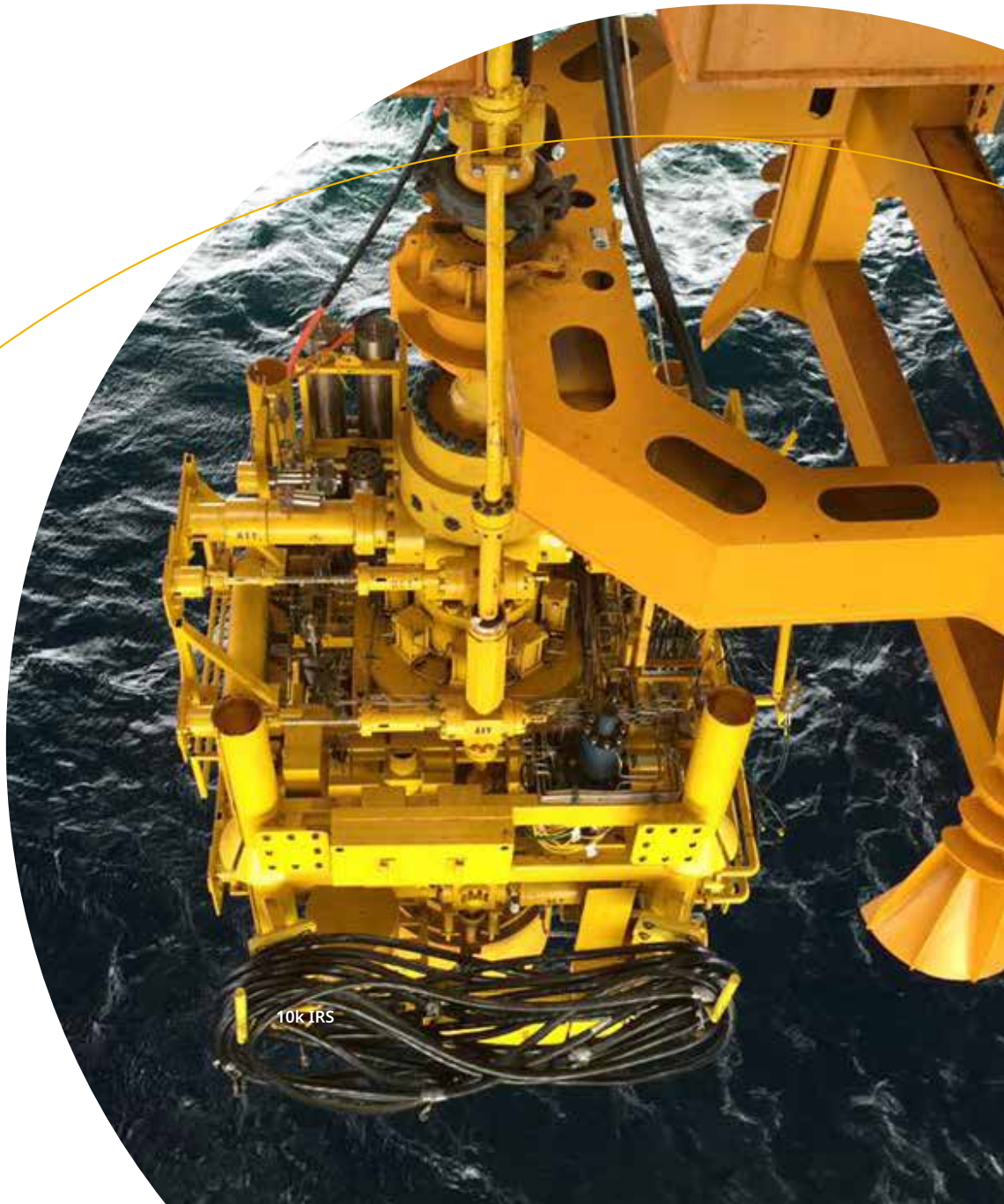


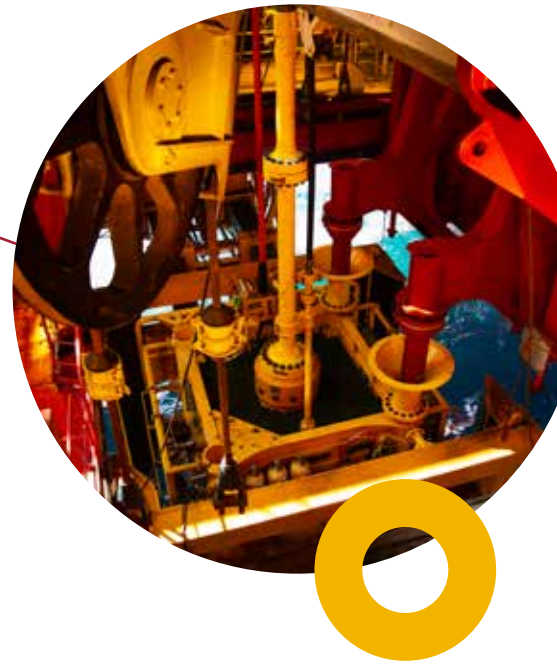
# IRS 3

## 10k Intervention Riser System

A cost-effective alternative for HP well access



# The **IRS 3 10ksi Intervention Riser System** can be utilized for wireline intervention, production logging, coiled-tubing operations, well stimulation and full plug and abandonment operations.



The *10ksi Intervention Riser System (IRS)* allows quick response via Helix Well Ops vessel, MODU or VOO to subsea well intervention needs as a cost-effective alternative to access a high pressure well. The *IRS* can be used to address loss of production or other emergency intervention needs using standard tooling and procedures. *IRS 3* provides the ability to safely enter a well with wireline or coiled tubing with well control at depths up to 3,000m.

The *IRS* enables access to both vertical and horizontal subsea trees in water depths down to 3,000 ft. Our *IRS* system combines rapid response with maximum operational flexibility to meet the specific intervention needs of high rate producing deepwater subsea assets.

All required through-tubing subsea well operations can be safely serviced with the *IRS*, with multi-disciplinary operations being conducted in a single mobilization.



## Experience

Over 300 subsea wells intervened from Helix vessels and third party MODUs. Used for all levels of intervention from wireline runs to coiled tubing operations.



## Innovation

Three generations of riser-based well access systems, including the first 15ksi rental system is available globally through our Subsea Services Alliance.



## Value

Fast deployment and interface with any type of vertical or horizontal tree results in subsea well access with full circulation capability, faster and more efficiently than a BOP and marine riser.

## TECHNICAL SPECIFICATIONS

### 10k IRS Specifications

Maximum Bore Diameter	7-3/8 inch production, 2-1/16 inch annulus
Maximum Working Pressure (MWP)	10,000 psi
Maximum Working Depth (MWD)	3,000 ft MUX control system
Hydraulics Operating Pressure	2,500 psi operational (3,000 psi max), 5,000 psi subsea accumulation
Weight	137,134 lbs subsea package
Well Barrier Type	1 x 7-3/8 in hydraulic cutting gate valve (LTV)  2 x 7-3/8 in double acting hydraulic gate valves (UTV & RTV)  7 x annular 2-1/16 in failsafe-closed gate valves (FSV1, FSV2, FSV3, KLIV, KLAV, AAV1 & AAV2)  Optional: 7-3/8" Safety Head, 10,000psi WP, Norsok D010 Compliant
Operating Depths	Up to 3,000m

### Proven cut capability

Retainer Valve	Slickline / braided line / electric line
Upper Cutting Valve	Slickline / braided line / electric line
Lower Cutting Valve	Coil Tubing 2 in x .203 wall 151 ksi yield, slickline / braided line / electric line

### Client interface

Pass Through Tree Function Lines	20 client hydraulic control lines, (4) 10,000 psi lines, (16) 5,000 psi lines
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### Subsea Tree Interface

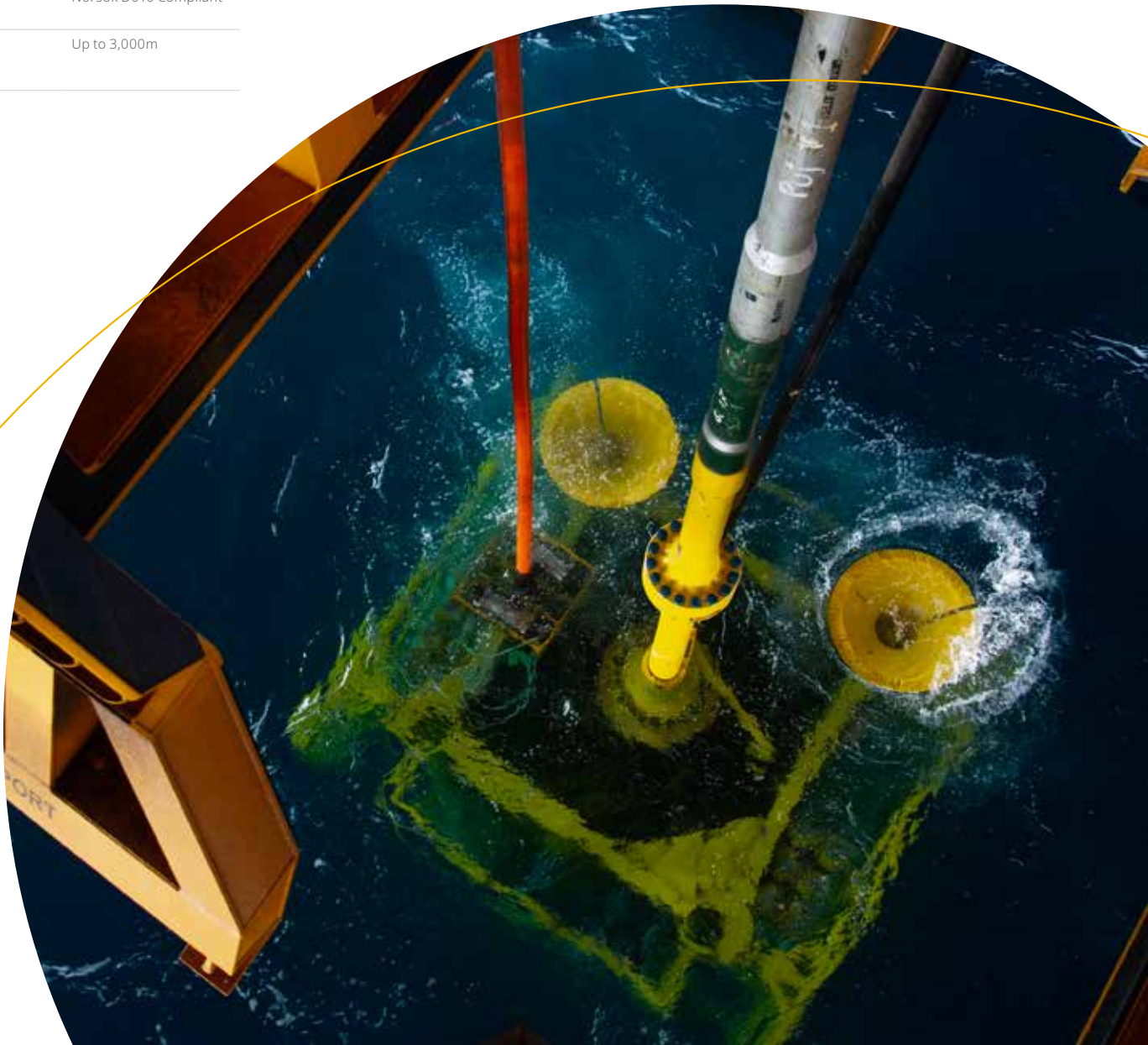
Stingers are designed to interface Horizontal Tubing Hangers or internal tree cap profiles. Lower Quick Make-up Connector able to interface dual bore or monobore Vertical tree hydraulic connectors.

### Surface flowhead specifications

Maximum Through Bore Diameter	7-3/8 in production, 3-1/16 in wings
Maximum Working Pressure (MWP)	10,000 psi

### Applications

Coiled tubing, electric line, slickline operations  
Cementing operations  
Well abandonment  
Tree change outs  
Acid stimulations







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