



Webinar Link and all other INFO.
www.asrental.sg/oga2024/





www.balltec.com

Pioneering Solutions
for offshore wind, decommissioning
and oil & gas projects worldwide

Decommissioning

Improving Safety & Efficiency

Balltec Engineered Solutions

Offshore pioneering solutions

20 years of high-integrity subsea connectors

Over 775 project locations worldwide

Acquired by the Venterra Group in 2022 looking at offshore wind potential

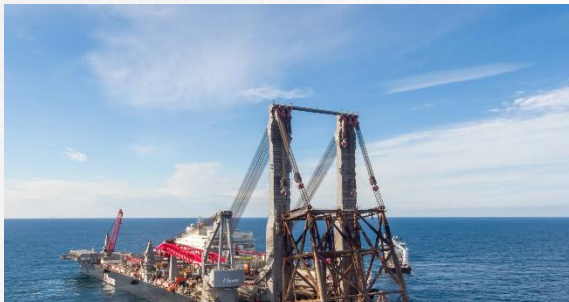
Founded in oil & gas, now transitioned to 50% offshore wind and 25% decommissioning



MARINE CONTRACTORS



seaway⁷



Internal Lifting Tool (ILT)
Decommissioning lift and transportation



Cable Protection System (CPS)
Connecting wind farm power cables



LiftLOK™
Lift and installation



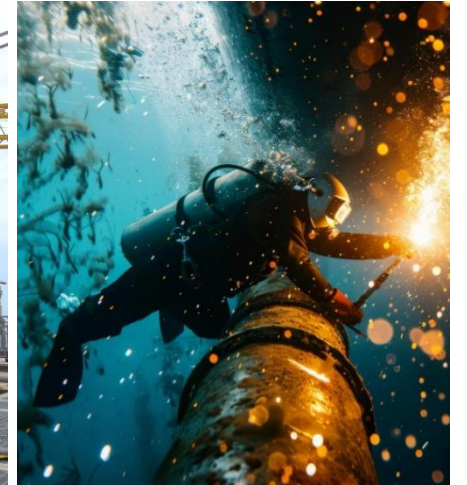
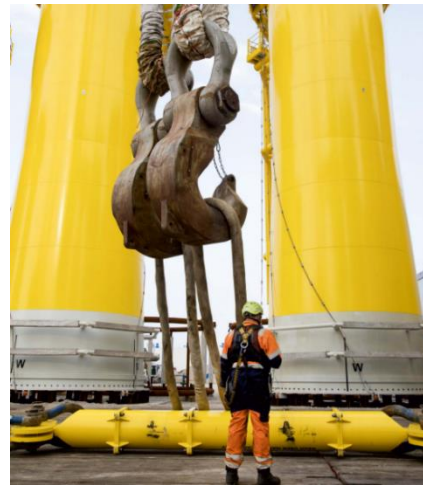
MoorLOK™
Subsea mooring



Decom Lifting Challenges

Design considerations

- Complex structures
- Working at Height
- Subsea Operation
- Increase Hazard
- High Cost
- No Lifting Points
- Remote Access
- Increased Manual Handling



Lifting Challenges

Design requirements

- Quick connect and disconnect
- System designed for multiple applications
- Integrated in single point or multi-point lift systems
- Interface with existing and new infrastructure
- Accommodate current, and future, SWL and WLL
- Full certification; Lloyds, DNV, ABS and BV
- Various modes of operation; mechanical, hydraulic, ROV, and remote
- Robust and reliable; minimum components
- Cost effective
- Safe operation; minimum interference



LiftLOK

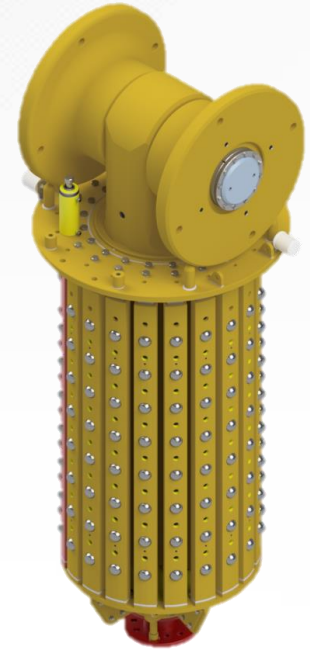
Decommissioning solutions

- Between 10 mT and 5000 mT SWL
- Mechanical, hydraulic, ROV or remote release operation
- Fail-safe designs, cannot be released under load
- Bespoke tool designed for any application
- Light and compact
- No requirement for extra rigging
- Low parts count
- High utilisation with minimal maintenance

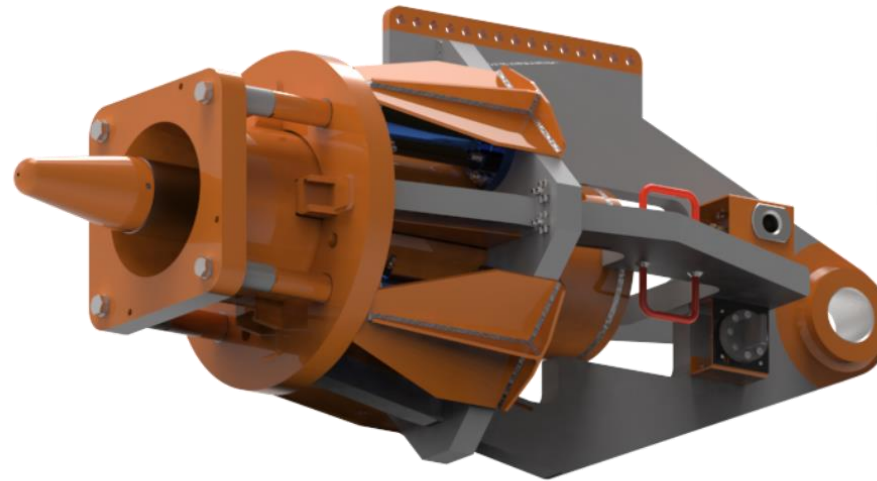
Gripping mechanisms:

- Ball and taper (existing tubular steel infrastructure)
- Innovative connection to flexible

**Adjustable
Internal Lifting Tool**

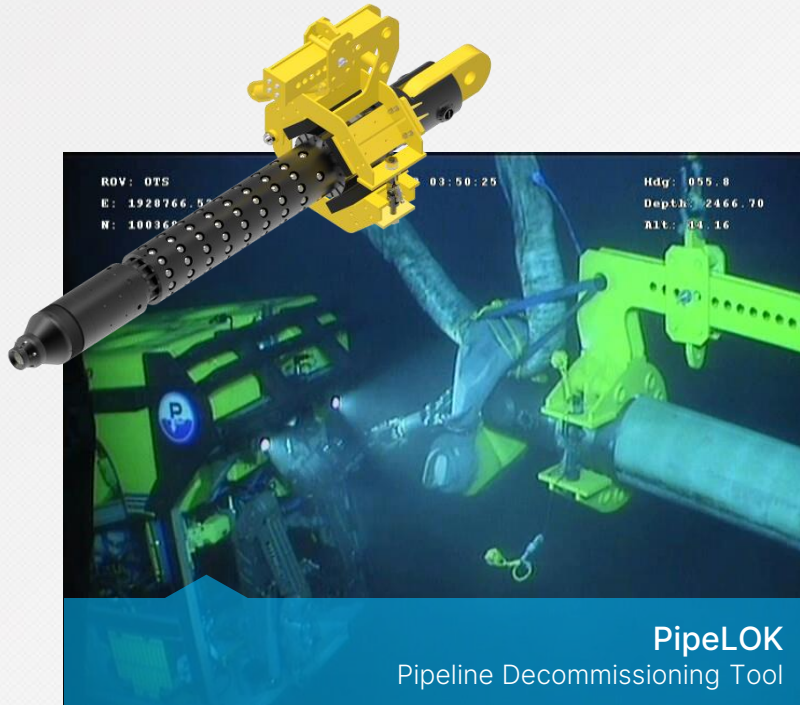


**Flexible
Recovery Tool**



Decommissioning

Product solutions



Reverse Pipelay



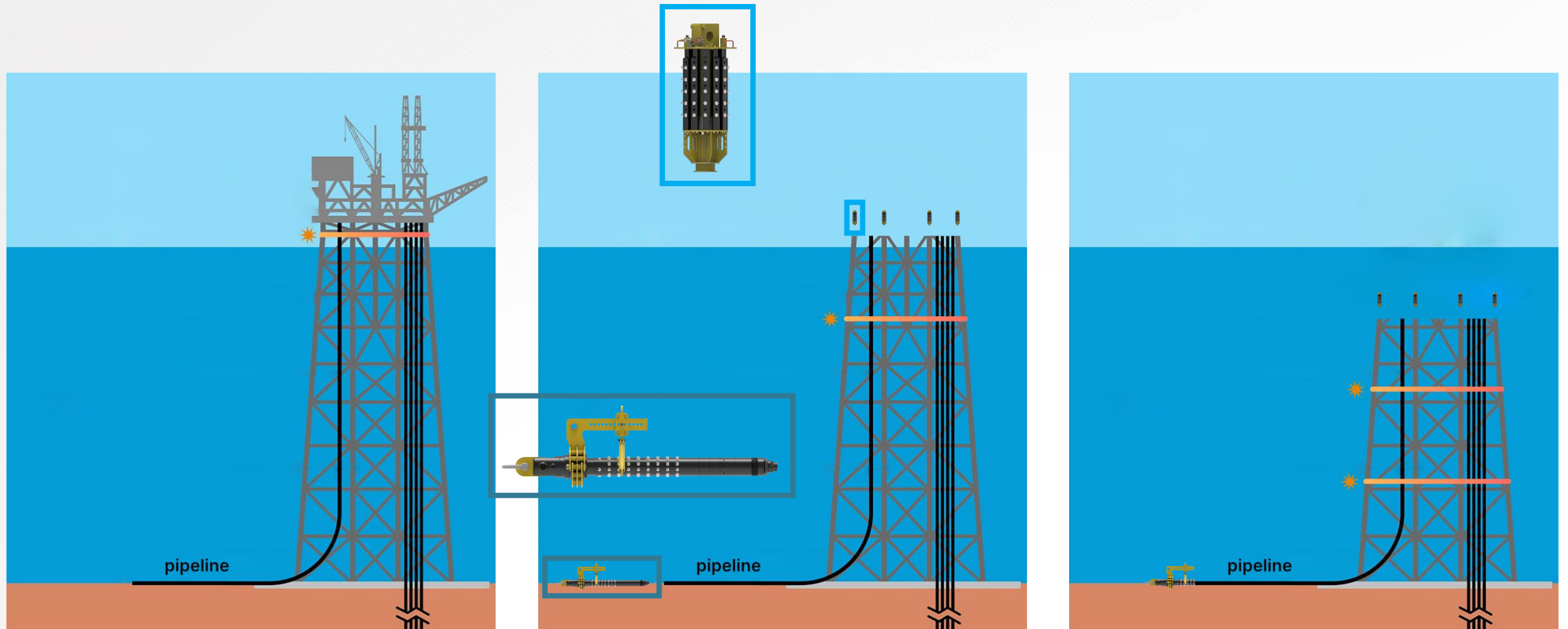
Jacket Lifting



Flexible Recovery

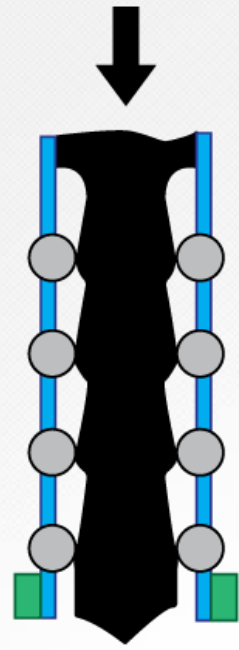
Decom Lifting Challenges

Design solutions

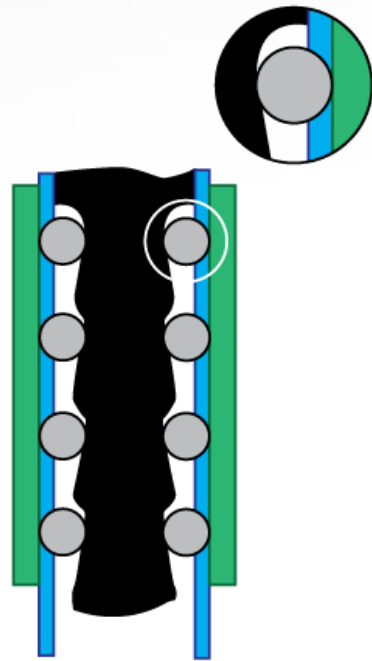


Ball & Taper

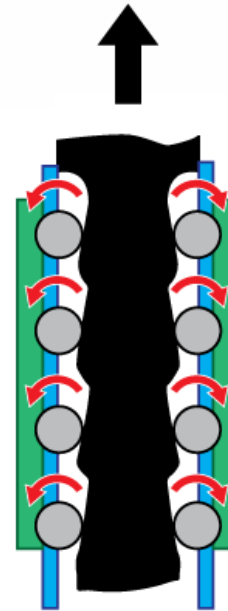
Design principles



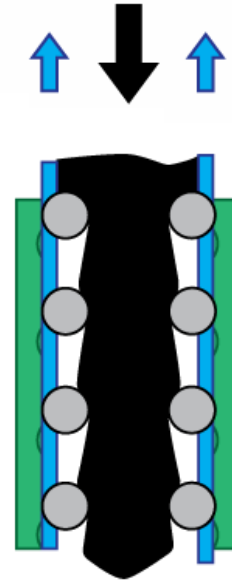
1 insertion







2 inserted



3 loaded



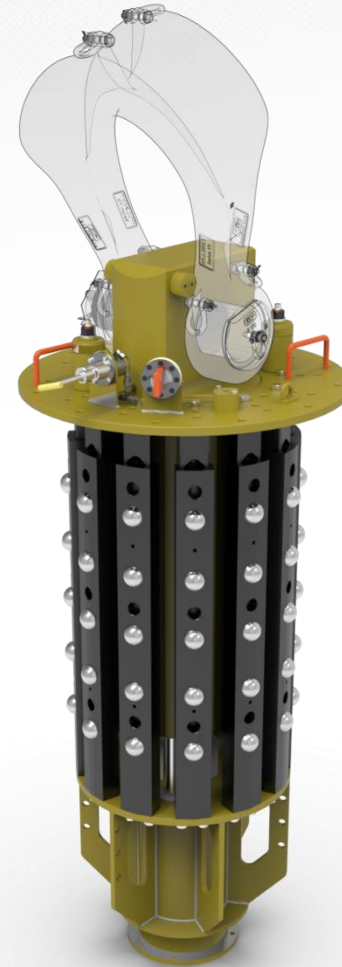
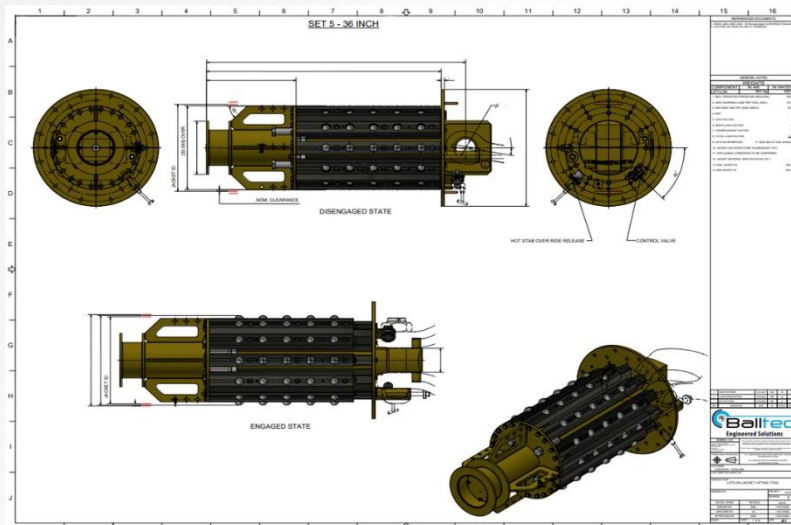
4 extraction

-  Mandrel
-  Ballcage
-  Receptacle
-  Load balls

Decommissioning

ILT - 4 Point lift, Thailand

Supply	5 x Internal Lifting Tools (ILTs)
SWL	500 mT SWL
Size	Between 36" and 65" diameter
Modes	36, 40, 45.5, 46, 48, 50.25, 59, 65
Certification	DNV-ST-0378
Operation	Full remote control
Interface	Direct to jacket legs 5 hour to change mode

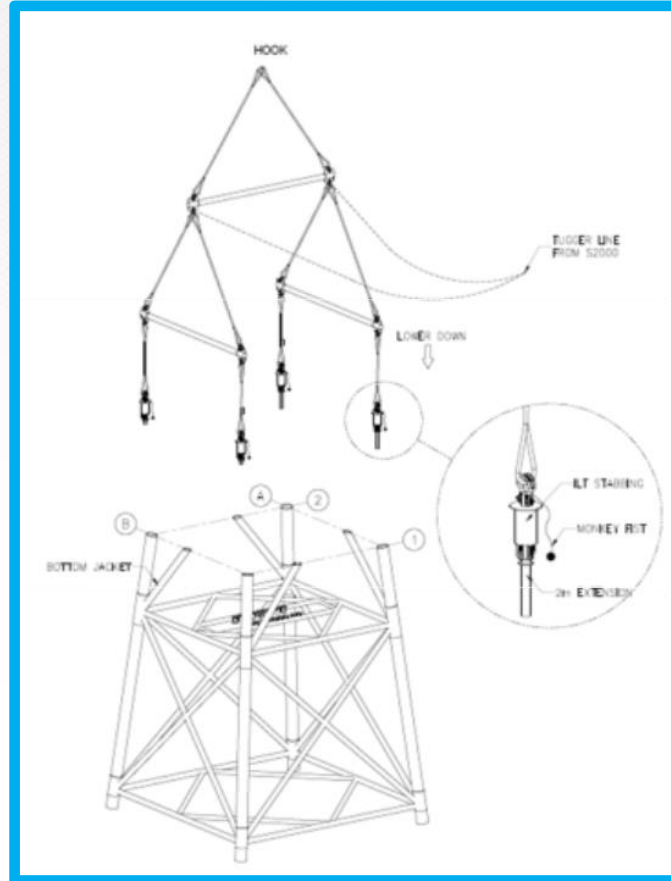
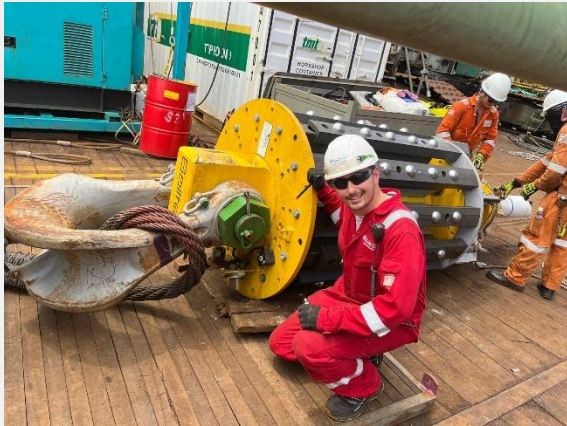




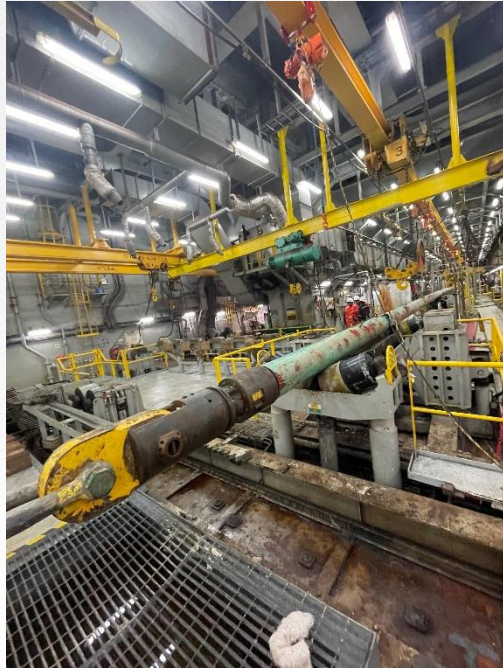
Pioneering Engineered Solution For High-load Connectors

LiftLOK

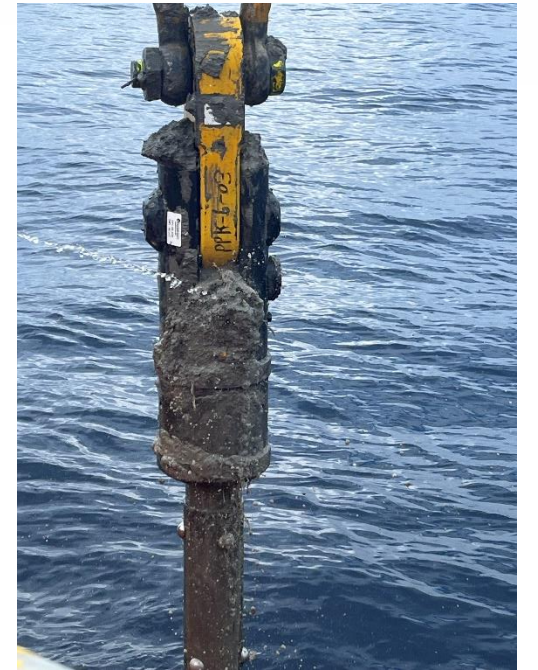
4 Point lift Chevron, Thailand



6" to 18" Pipeline Recovery Tools



SWL	60 to 100 mT
Max. hyd. P.	210 bar
Interface	Custom padeye
Testing	1.22 x SWL + 20
No. of units	14



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