

Product Data Sheet

Tree Jacking System



Unity's Tree Jacking System (TJS) is a compact technology engineered to deliver the safe, efficient and controlled removal of offshore Christmas Trees. It's ideally suited to decommissioning and intervention activities, enabling fully rigless, autonomous tree removal. It can eliminate or contain shock load, stress and recoil - critical when operating in confined spaces - and solves the problem of insufficient crane pulling capacity. The TJS is particularly effective in situations where high separation loads are required, eg. seized or corroded flanges, specialty connectors or degraded bolting, providing a safe and controlled solution.



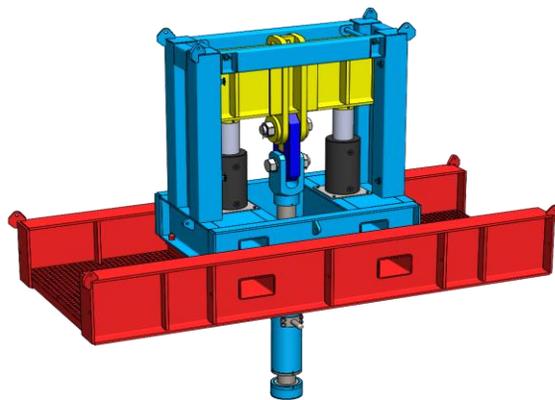
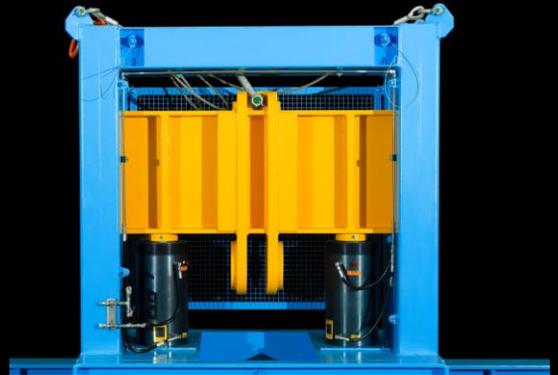
At the heart of the system is a compact hydraulic jacking module mounted in a heavy-duty cradle, positioned above tree level. A fully adjustable telescopic connector is capable of accommodating a wide range of tree elevation variations across the wellbay. Through a spreader beam and the telescopic connector, the TJS applies up to 150 tonnes of controlled lifting force, enabling efficient and predictable separation even in high-load scenarios.

Benefits:

- Compact system for use in tight spaces
- Eliminates or contains shock load, stress and recoil - critical in confined spaces
- Autonomous system replaces the use of a rig, crane and derrick.
- Modular design for ease of transport & on-site assembly
- Fully adjustable height for any size of Christmas Tree
- Can be operated by a conventional 3,000 psi pressure control panel, allowing ease of integration with readily available/ existing equipment.
- Wireless, hand-held load display improves personnel safety.

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Features:

- Modular design
- Compact jacking module
- Dual heavy duty hydraulic rams
- Spreader T-Bar & Extension Sub rigged up separately and lowered into Jacking Unit
- T-Bar constrained by safety retention rods
- Wireless ATEX-Certified Load Cell with separate hand-held display
- Can be operated by a conventional 3,000psi output wellhead PCE control panel
- Support Cradle supplied complete with safety guide clamps to attach to rig beams
- Tirfor eyes provided on Support Cradle and Jacking Module to facilitate skidding

Specification:

Applicable Design	DNV-ST-0378 (Offshore Lifting Appliances)
Standards	DNV 22.2 (Temporary Lifting Appliances)
	NORSOK N-004 (Offshore Steel Structures)
	NORSOK R-002 (Lifting Appliances)
Max Output	150 Tonnes
Operating Pressure	0 - 3,000 PSI
Hyd Ram Stroke	12"
Base Unit Size	1.7m W x 4.0m L x 1.1m H
Base Unit Tare/SWL	2 Tonnes/ 4.75 Tonnes
Hyd Unit Size	1.2m W x 1.8m L x 2.1m H
Hyd Unit Tare/ SWL	2 Tonnes/ 2.75 Tonnes
T-Bar Unit Size	0.3m W x 1.6m L x 1.1m H
T-Bar Wt/SWL	0.75 Tonnes/ 12 Tonnes
Ext Sub Stroke	24"
Ext Sub Wt/ SWL	445KG/ 150 Tonnes