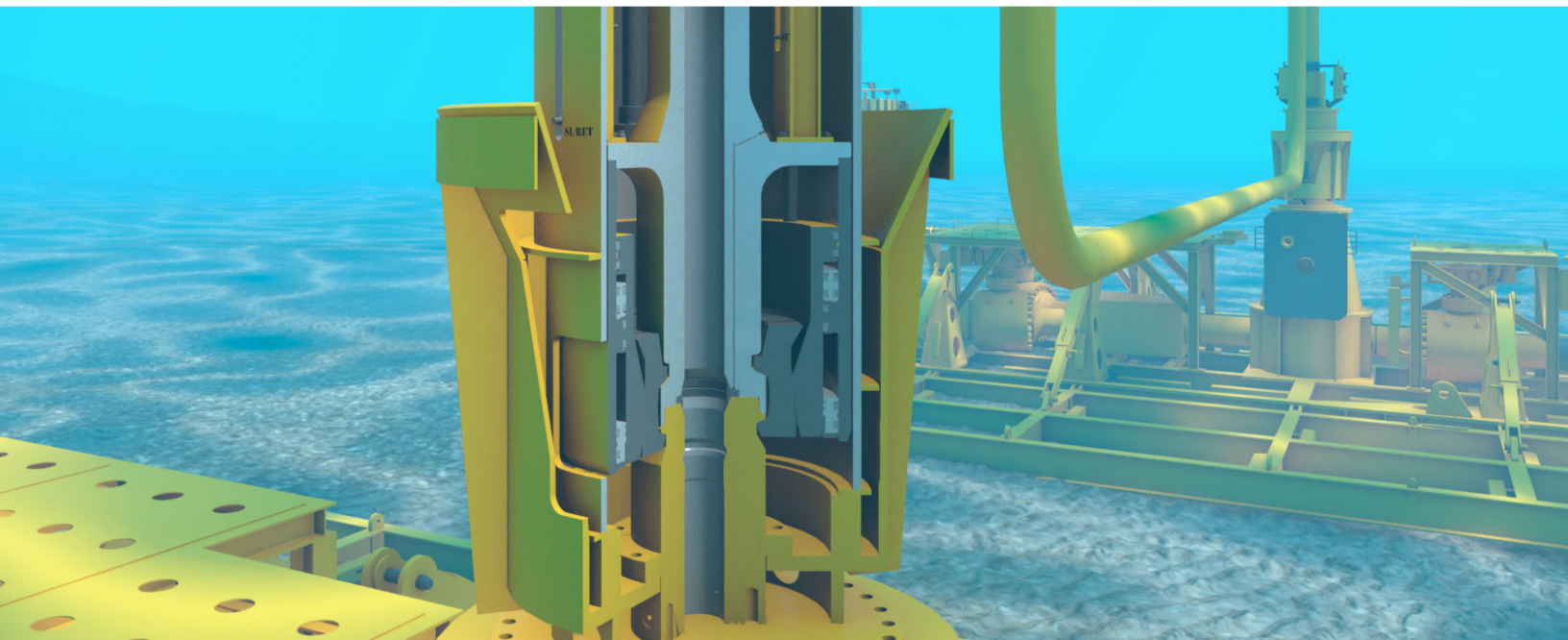




SUBSEA PIPELINE SYSTEMS

Wet Christmas Tree Connector

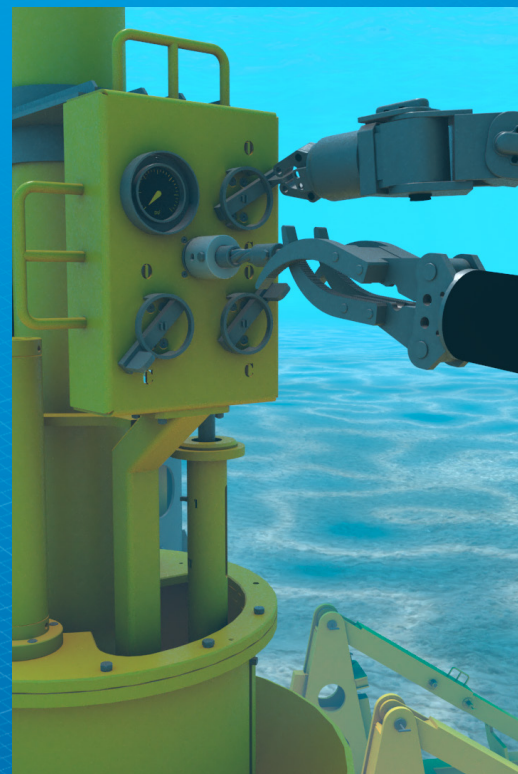


WET CHRISTMAS TREE CONNECTOR

The Oil States Wet Christmas Tree Connector (WCT) is a robust, hydraulically actuated collet-style connector for deepwater applications. The connector is designed for quick, easy installation of rigid or flexible jumpers, tiebacks and flowlines via ROV interface.

The connector and accessories utilize a modular, standardized component system. This allows for a single connector size to accommodate a range of hub and pipeline sizes with only minimal modification. The interface can be designed as funnel up or funnel down design. The metal to metal sealing interface also includes a secondary elastomeric seal for environmental containment and immediate seal integrity testing.

The WCT utilizes an integrated soft-land system to prevent hub and seal damage from hard landings, redundant hydraulic release systems and seal change out capabilities that do not require pulling the jumper to the surface. The simplified ROV interface panel assists with immediate annulus testing while on bottom.





SUBSEA PIPELINE SYSTEMS

WET CHRISTMAS TREE CONNECTOR

Key Benefits

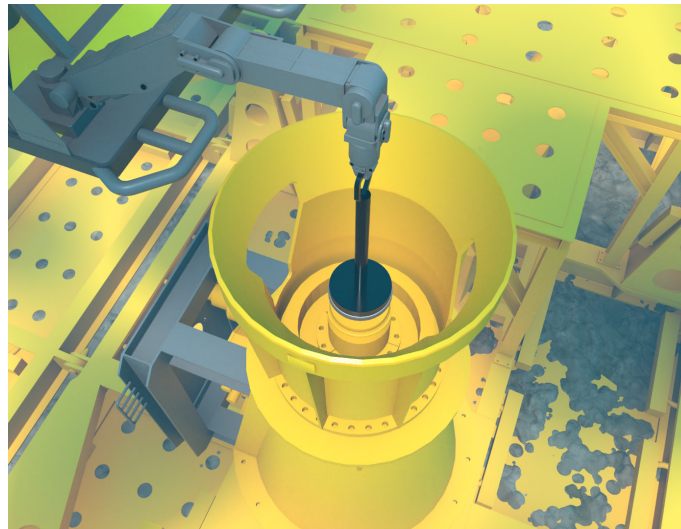
- Proven, robust collet-style technology
- Standardized component system for grouped sizes
- Metal to metal sealing with environmental backup seal
- Integrated soft-land system
- Redundant hydraulic release system
- Seal change out capability while on bottom

Applications

- Flowlines, tiebacks and jumpers, rigid or flexible lines
- New or repair pipeline construction, PLEM/PLET tie-in points - deepwater, ROV

Services

- Engineering design
- Testing - FAT, SIT qualification
- Coatings
- Installation technical assistance



Oil States Subsea Pipeline Systems

Oil States' Houston-based Subsea Pipeline Systems division designs, manufactures and markets proprietary deepwater and shallow water pipeline connectors for subsea pipeline construction, repair and expansion projects.

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