



# TRENDSETTER HOT TAP SYSTEM

## Unique Connection Provide Solutions Without Interruptions

Trendsetter's deepwater Hot Tap System was developed to support operators that want to do more with their existing subsea infrastructure. Hot tapping of existing pipelines and jumpers allow operators to access the subsea system without interrupting production. Hot tapping also facilitates abandonment operations to allow localized flushing without impacting other portions of the subsea system.

Trendsetter's qualified, deepwater Hot Tap System consists of 2 core components; the pipeline clamp and the hot tap / drill assembly. The pipeline clamp is critical to ensuring that the hot tap project is successful. As such, Trendsetter reviews each hot tap project to ensure that pipeline clamp assembly is design and qualified with the right features and seal technology. Trendsetter's proprietary pipeline clamp offers redundant sealing mechanisms to ensure that bore fluid is not released to

the environment. After clamping, the ROV operated drill tool offers a seamless and controlled tapping operation.

When the tapping operation is complete, the TC2 connector offers an excellent MTM sealing connection to complete the tie-in of the new subsea infrastructure to the old.

Trendsetter's deepwater hot tap technology has been used to facilitate permanent tie-in of subsea gas lift to existing jumpers to temporary subsea abandonment operations.



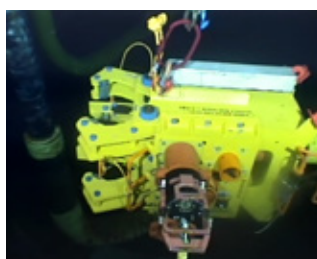
Hot Tap Clamp



Hot Tap Drill Tool

## CASE STUDY

*Tasked with developing a system to add gas lift to three existing vertical jumper off the coast of West Africa, Trendsetter was uniquely positioned to design a suite of permanently installable clamp systems in a compressed schedule. Technical challenges related to sealing on unknown surface finishes, containing gas pressure, and supporting flowline loads were substantial but successfully overcome.*



**1** Installing Hot Tap Clamp



**2** Hot Tap



**3** Hot Tap Ready For Gas Lift Tie-In

## KEY FEATURES

- ✓ ROV-installed clamps for jumpers or flowlines rated for 3000m WD
- ✓ Installed sizes range from 6" Nominal Pipe OD • 10" Nominal Pipe OD
- ✓ Fit-for-purpose clamp design
- ✓ Redundant nonmetallic seals from clamp to pipe give the operator flexibility and peace of mind for newly installed small bore flowlines
- ✓ Rigorous qualification program that validated the load bearing and system seal requirements

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