

# Securely clamping to pipelines

## Njord TC (Tether Clamp)

Njord TCs (Tether Clamps) are used to support and control the movement of subsea umbilicals, risers and cables (referred to as pipelines) as they rise from the seabed to the surface, by securely clamping to the pipeline and connecting it to the seabed via a Tether System. Synthetic Tether Systems can also be supplied upon customer's requirement.

The Njord TC has a unique Trelleborg swivel design that permits the swivel to fully rotate around the Njord TC body, thereby eliminating torsional loads from the Tether System to the pipe. Njord TC technology is also used for pipe hold back and hold down applications. Njord TCs can also incorporate unique features to overcome large pipe contractions during the service life due to hydrostatic pressure and creep. All Njord TCs are maintenance free for the full project duration and can be designed for ROV installation and retrieval.

The Njord TC is designed to withstand high differential axial loads on the pipe, together with safety factors and dynamic load effects, while coping with all the usual difficulties of clamping onto subsea flexible structures. End interfaces are available to attach to bend restrictors and bellmouths to protect the pipe bend radius.



## Key Applications:

- Oil and Gas and Offshore Wind riser configuration (seabed to surface)
- Hold down/hold back applications
- Mid Water Arch connection

## Benefits:

- Extensive track record and over 15 years' experience and knowledge
- Maintenance free with full cathodic protection
- Capable of compensating for high pipe creep/contractions
- Capable of securing high axial loads > 50te
- Can be ROV installable and retrievable



## Contact Us

Trelleborg Applied Technologies division is an industry expert in delivering innovative and reliable solutions that maximize performance for our customers. Our vast range of specialized, customizable materials ensure peace of mind at every stage of your project. With reliable and efficient project management and manufacturing we endeavour to take performance to new levels by achieving your goals safely, on time and within scope.



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