



# Repeatable and predictable pipeline behaviour

## Njord RBM (Rotating Buoyancy Module)

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Njord RBM (Rotating Buoyancy Module) are used to mitigate buckling in seabed pipelines. Buckling occurs during start-up and shutdown sequences as the thermal fluctuations cause pipelines to expand and contract, leading to problematic buckling along its length.

Traditionally non-rotating cylindrical buoyancy modules have been installed along sections of the pipeline to reduce the weight and friction in that section and promote controlled bending. However in certain conditions the modules have displaced seabed material to build ridges (berms) that have then restricted the lateral movement that the modules were installed to promote.

With that in mind, Trelleborg developed Njord RBM that roll on the seabed that thereby reduces lateral friction, berm creation and allows repeatable and predictable pipeline behaviour, eliminating rogue buckles and reducing axial walking in the pipeline. As a consequence it allows for project cost reduction as a lower quantity of buoyancy modules are used to create 'safe buckling zones'.



## Benefits:

- Reduce project costs
- Predictable safe buckling zones
- Reduce berm creation
- Eliminate rogue buckles
- Reduce axial walking in the pipeline



## Applications:

Seabed pipeline and flowlines



## Contact Us

Trelleborg Offshore delivers innovative and reliable offshore solutions that maximize business performance to meet your needs. Our dedicated and highly skilled staff are always on hand to provide seamless process support from initial idea, through to delivery and beyond.



Brazil: +55 22 2106 4040  
China: +86 137 9287 9241  
France: +33 3 44 23 03 50  
Norway: +47 32 23 20 00  
Singapore: +65 6265 0955  
United Kingdom: +44 1695 712 000  
United States: +1 832 456 8300



Email: [Offshore@trelleborg.com](mailto:Offshore@trelleborg.com)



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