



Odin SPG (Skirt Pile Gripper)

The fundamental requirement of an offshore oil and gas platform is the need for a secure and stable foundation to ensure the safety and seamless operation during offshore drilling.

Grouting method is used to secure the platform foundation onto the seabed through piling and the skirt pile gripper which is welded onto the upper of the jacket skirt pile, helps to hold the piles firmly in position, providing a temporary retention of the jacket's elevation position during the leveling operations and grout process until the grout between the pile and the jacket has set and the installation is completed.

Trelleborg's Odin jacket leg can system is designed to encompass the sealing needs during the installation of an oil and gas platform substructure. Our Odin SPG (Skirt Pile Gripper) combines the best in engineering capability with global offshore expertise to deliver a more efficient skirt pile installation and performance, completing Trelleborg's solutions package for jacket leg can system. Our custom designed Odin SPG delivers a firmer grip on the pile with its unique biting teeth for increased contact area. This fixing method reduces risk during platform installation, as it guarantees stable working conditions, even in inclement weather.

Trelleborg offers a complete substructure leg can system solution from a single source, simplifying control and improving efficiency from purchase to delivery and reducing the risks associated with platform installation, through its Odin SPG, Odin GS (Grout Seal), Odin GP (Grout Packer) and Odin DC (Diaphragms Closure). You can now specify a total substructure leg can system from Trelleborg.

Our custom-made skirt pile gripper is available for a holding capacity of between 300MT and 3500MT.

Trelleborg's in-house engineering capabilities provide customers with the technical expertise and know-how to design, model, fabricate and test a skirt pile gripper to ensure a high quality, custom-made, fully certified product.



Odin SPG sensors

When the Odin SPG is in operation, the main source of down time is not being able to predict failure in the primary air piping line. If this is not detected, the cylinder will lose pressure and fail. This then causes downtime, while the secondary air piping line is activated. Trelleborg's Odin SPG sensors can be activated to detect loss of pressure, so that the secondary air piping line can be activated before the primary air piping line fails or more pressure can be added to the primary air piping line. Therefore, reducing the down-time during installation.

Applications:

- Offshore Platform Jacket structure
- Skirt Sleeves
- Jacket Gripper

Benefits:

- Odin SPG sensors that monitor the pressure distribution of the cylinders
- Reduces risk during jacket installation
- Maximizes skirt pile installation efficiency
- Works with all offshore oil & gas and windfarm HVDC jackets
- Enhanced quality control through complete design, testing, steel fabrication and assembly of all components in-house, including HPU, ROV.
- Offer stability in grouting operation Holding capacity from 300MT to 3500MT
- Option to supply with our Odin DC (Diaphragm Closure) and Odin GP (Grout Packer)
- Full-scale In-house testing

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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