



OFFSHORE

Self-lubricating bearings for pipe-laying equipment and stinger connections



Materials for long time use in marine and submerged applications

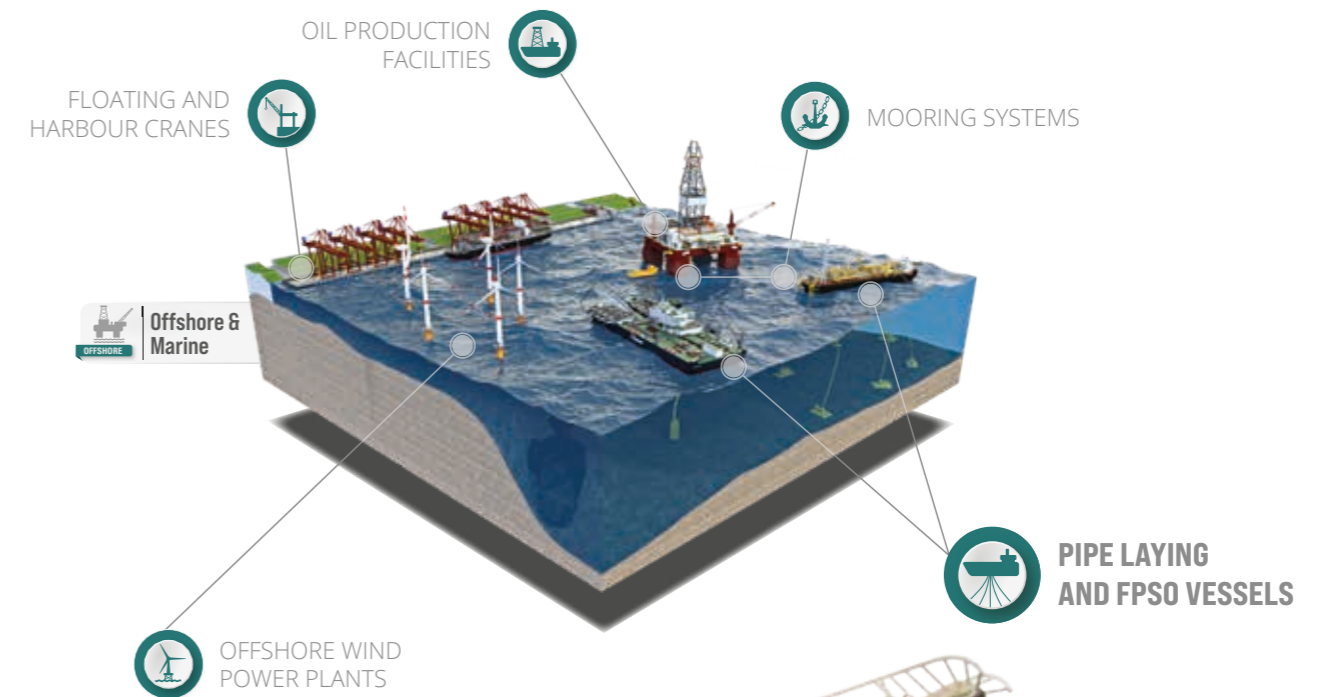
Contemporary designs represented an enormous challenge for modern-day bearing materials. Zero maintenance is often expected under severe to extreme conditions as well as under maximum loads.

The constant pressure on costs and a low Total Cost of Ownership also calls for increasing uptime of machinery and requirement and uncompromising standards of operational reliability.

DEVA® sliding bearing materials are suitable for applications involving sustained highest static and dynamic loads, relatively low sliding speed and rotary, angular, axial or linear motion. They are also suitable for applications where conventional lubrication is not possible or permissible, or where other properties are requested such as durability and resistance to operational and environmental influences or special conditions (e.g. impact load, abrasive stress, etc).

deva.tex®

deva.tex® is a high performance composite, filament wound material, with a PTFE sliding layer and fiber reinforced backing layer. The machinable sliding layer consists of fibres which are embedded in an epoxy resin matrix. deva.tex® materials are suitable for applications which are subjected to high static and dynamic loads, relatively low sliding speeds and rotary, angular or linear motions. deva.tex® is also suitable for applications where conventional lubrication is not possible or permissible, or where other properties are required such as durability and resistance to operational and environmental influences or special conditions, e.g. impact load, abrasive stress etc. deva.tex® bearings can be produced in a wide variety of dimensions and shapes. It can be delivered as a plain bearing, a washer or segments which allows for large diameters. It is easy to install using press fit or super cooling and it can be delivered in several tolerances. deva.tex® materials offer a cost effective, high load and high reliability sliding bearing solution for modern wind turbines.



Pipe-laying vessel and stinger connections

Pipe- and cable laying vessels play an important role in the emerging Offshore Wind Farms industry. These various systems for pipe- and cable laying vessels rely on safe operation and a long life time from self lubricating and maintenance free slide bearings. It offers our customers a low TCO and most of all, feeling confident that the piping and cables in extremely harsh environments can be handled and positioned smoothly. Federal-Mogul DEVA has been involved for almost 50 years in providing custom designed, smart and costs effective slide bearing solutions for the Global Offshore & Marine market

Our application engineers work on new bearing designs from the initial inquiry to the final design. It might all start from a preliminary inquiry specifying application details such as load, speed, friction distance, environment and other conditions, and maybe a required lifetime. Based on this information a suitable bearing material is chosen from hundreds of options to meet the design requirements for these Offshore & Marine applications. After all, we at DEVA® know our bearing material better than anyone else. We know that they suit the extreme Offshore & Marine environment-demands because we have more than 80 years of experience of manufacturing bearings.



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Maintenance-free, self-lubricating Bearings

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