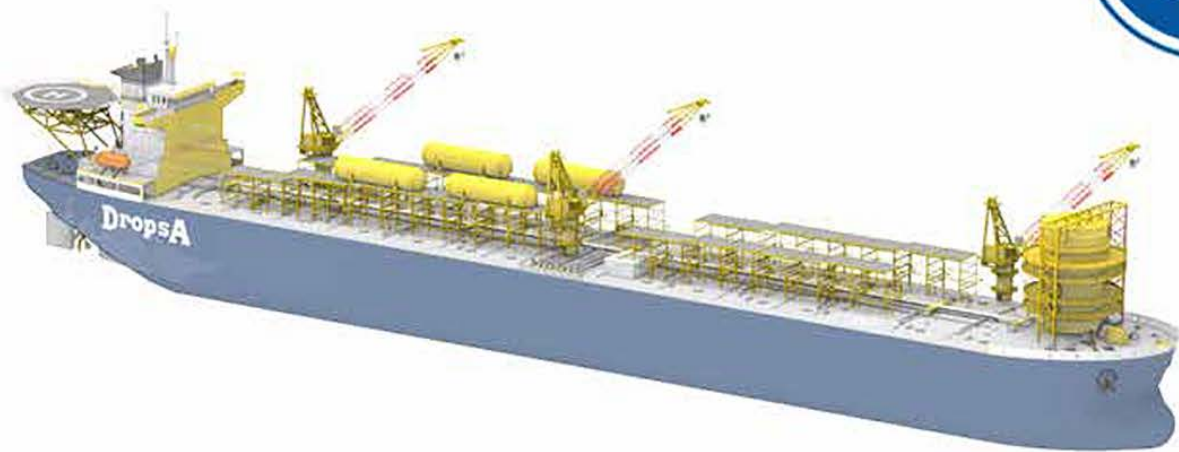# DropsA

Lubrication systems specialists
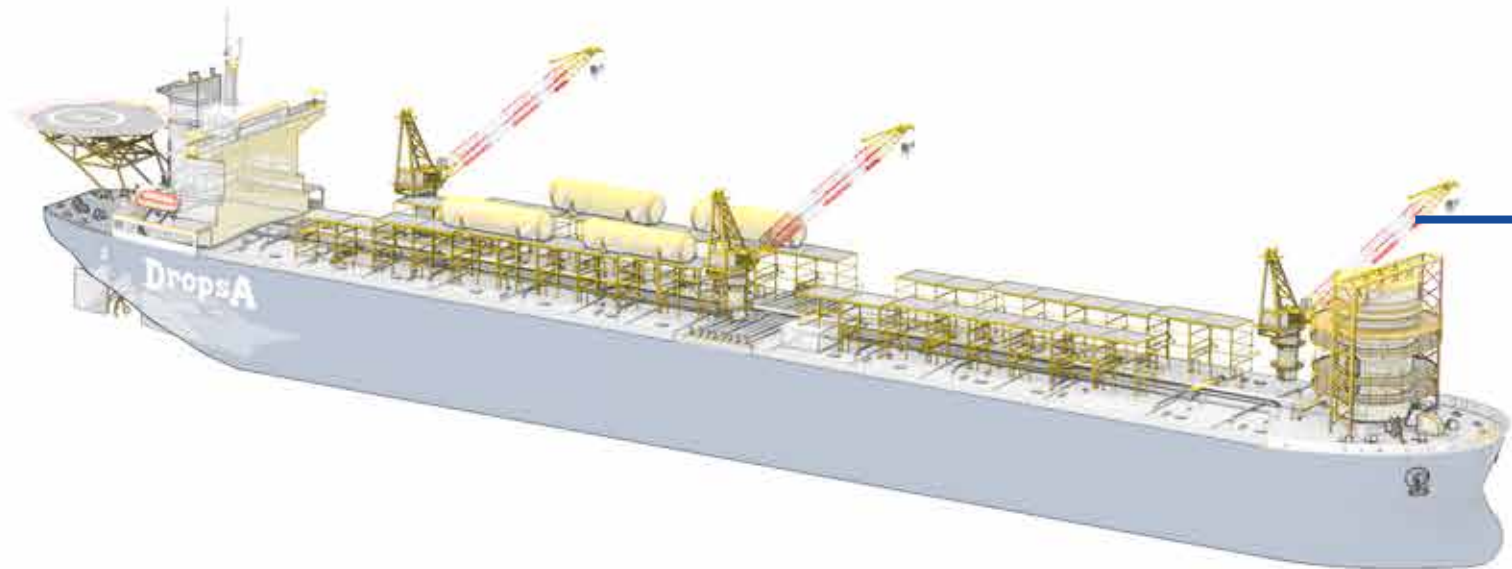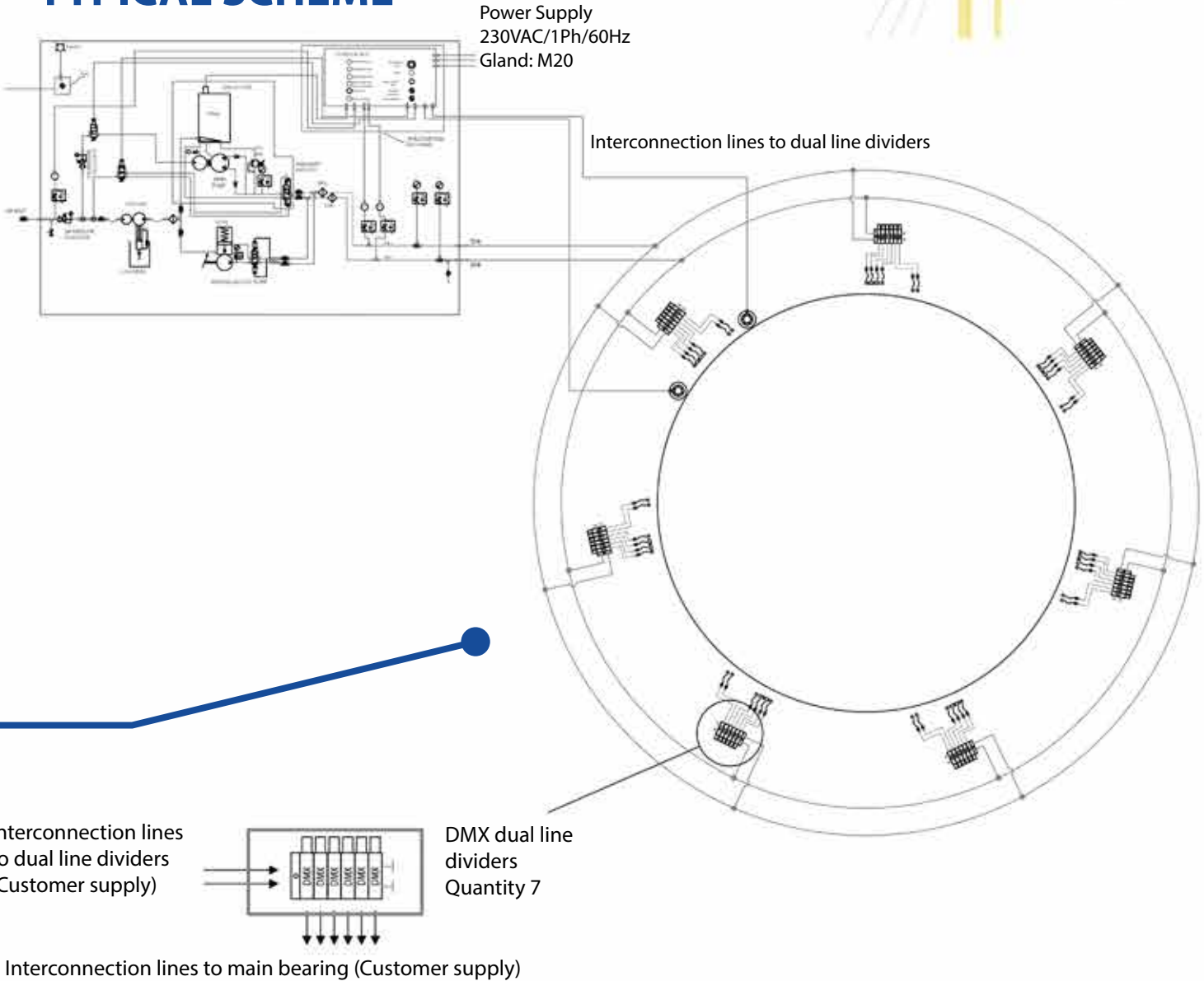
MARINE AND OFFSHORE

DropsA

TYPICAL SCHEME

Power Supply
230VAC/1Ph/60Hz
Gland: M20

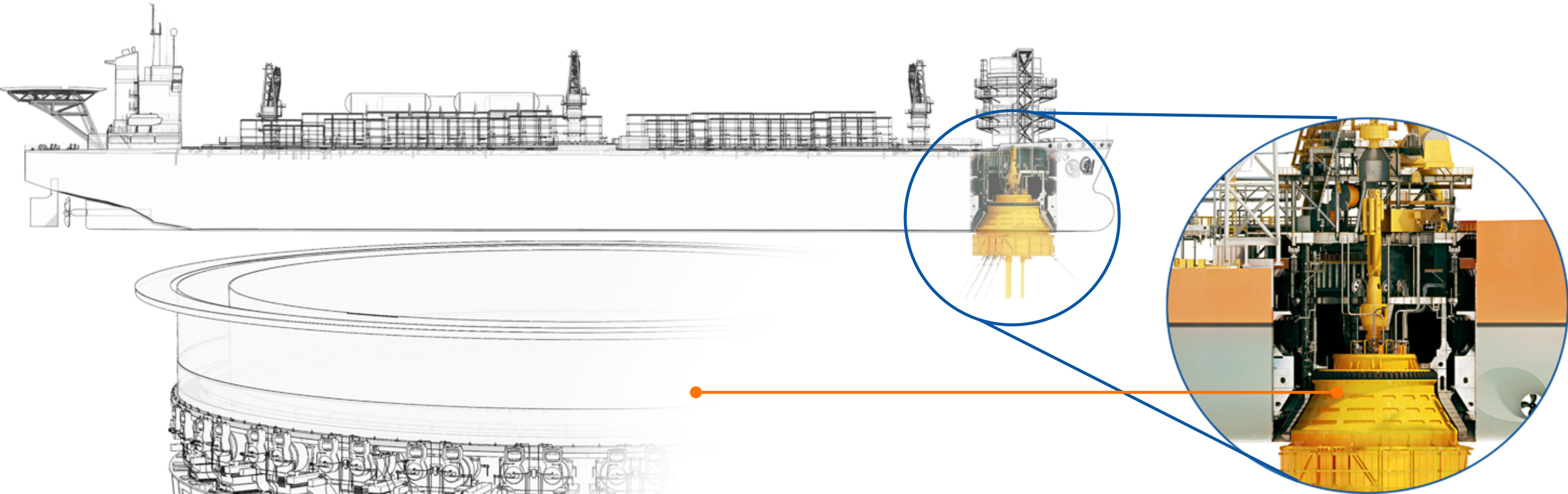Interconnection lines to dual line dividers
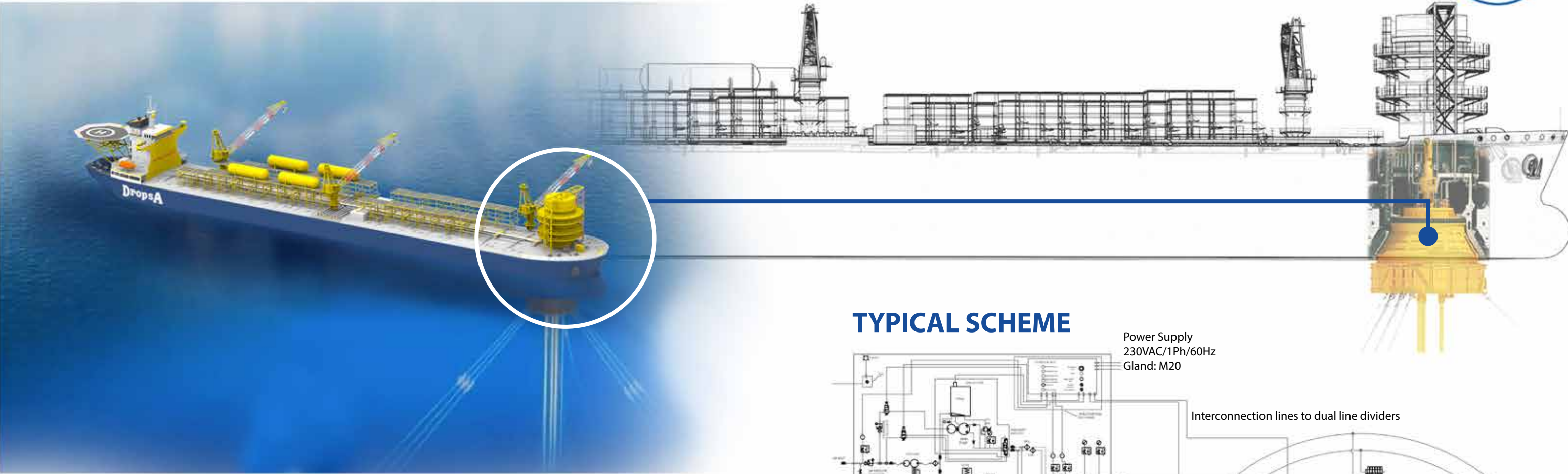
The FPSO turret has a fundamental role for anchoring vessels and exploiting wave motion, thus allowing the ship to rotate 360 degrees during mooring. To reduce operation time, turrets are manufactured with large bearings (up to eight meters in diameter) or large cylinders (diameter of up to 20 meters) that are held in place by bogies. Cylinder guides, bearings, and bogies need to be constantly and consistently lubricated to satisfy the increasing workload and stresses produced from constant rotation, thus reducing wear and friction at vessel contact points.

DropsA's automatic grease lubrication system has been specially designed for the application in a FPSO structure and has therefore been developed in compliance with ATEX certification.
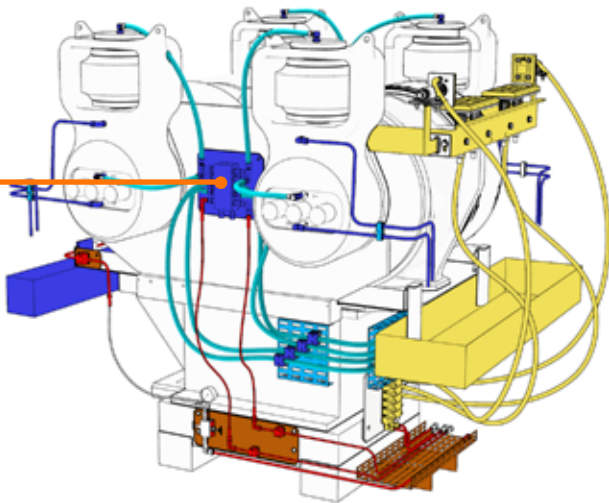
Interconnection lines
to dual line dividers
(Customer supply)

DMX dual line
dividers
Quantity 7

Interconnection lines to main bearing (Customer supply)

Radial Wheel

Greasing Cabinet

The Main Greasing Cabinet comprises of a Sumo pneumatic grease pump, pneumatic refilling drum pump, and manual pump that provides grease flow and pressure to operate the dual line divider valves. The distribution blocks equally distribute grease to the points located on the bearings. The Sumo pump pressurizes the first main line and then the second one, therefore, suppling lubricant to the dual line metering elements - DMX dividers.
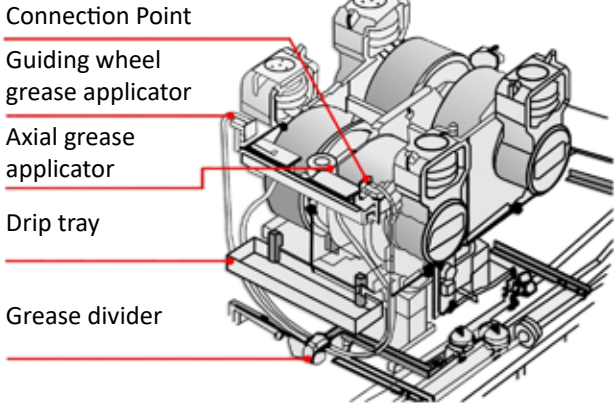
Dual Line Dividers - DMX Line

Dual line distribution blocks are the ideal solution for the lubrication of Turret Mooring Systems. The distribution process focuses on the dual line concept that provides a simple, yet highly reliable, grease injection method that can effectively function in many of the extreme conditions found on this kind of system, such as variable back pressure and temperature variations that subsequently affect grease viscosity.

Connection Point

Guiding wheel grease applicator

Axial grease applicator

Drip tray

Grease divider

Automatic Lubrication: Optimization of Costs and Reduced Down Time

DropsA

Since 1946, DropsA has been producing centralized lubrication systems and components, along with continuously developing new products, and patents, that have contributed to making the lubrication sector, all over the world, more innovative and competitive.

DropsA offers a vast range of products capable of maximizing the profitability and productivity of all machinery, providing the latest technologies in terms of systems, functionality, and components. Thanks to the branches and the specialized distribution channels, DropsA provides prompt responses, support, and assistance to customers on a local and global level, guaranteeing consistent high quality standards all over the world.

The use of lubrication systems is essential for machine operation, even more so when the operation functions in heavy duty environmental conditions experienced in the marine transportation industry. The installation of an automatic lubrication system allows for reduced machine downtime, control of lubricant consumption, and the increased life of bearings, chains, and gears. Knowledge from years of experience and a widespread network of offices and dealers worldwide, DropsA provides specific solutions for all lubrication needs, including customer defined projects to installation, and after-sales support.

DropsA Production

The production, processing, and automated assembly systems utilized in DropsA's central plant, near Milan, are equipped with an advanced quality monitoring, and product traceability system, in order to guarantee both highly efficient processing and product assembly that accurately reflects all technical specifications.
Continuous investments in all areas of design, engineering, and production of the products ensure a constant improvement in the reliability of the products themselves.

Systems Solutions

TOTAL LOSS LUBRICATION

GREASE LUBRICATION
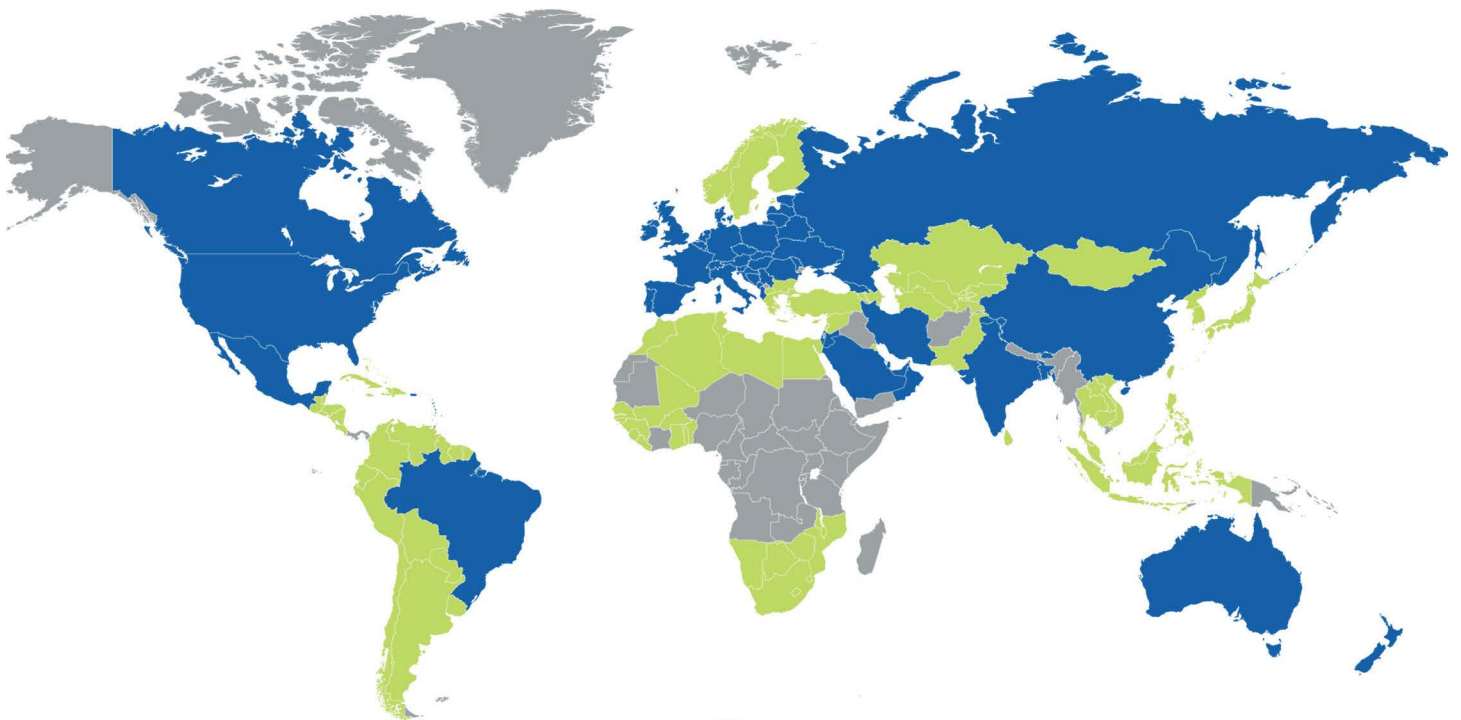
AIR/OIL LUBRICATION

OIL RECIRCULATION LUBRICATION

MQL - NEAR DRY MACHINING LUBRICATION

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LUBRICATION SOLUTIONS PROVIDERS

D — North AMERICA

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