

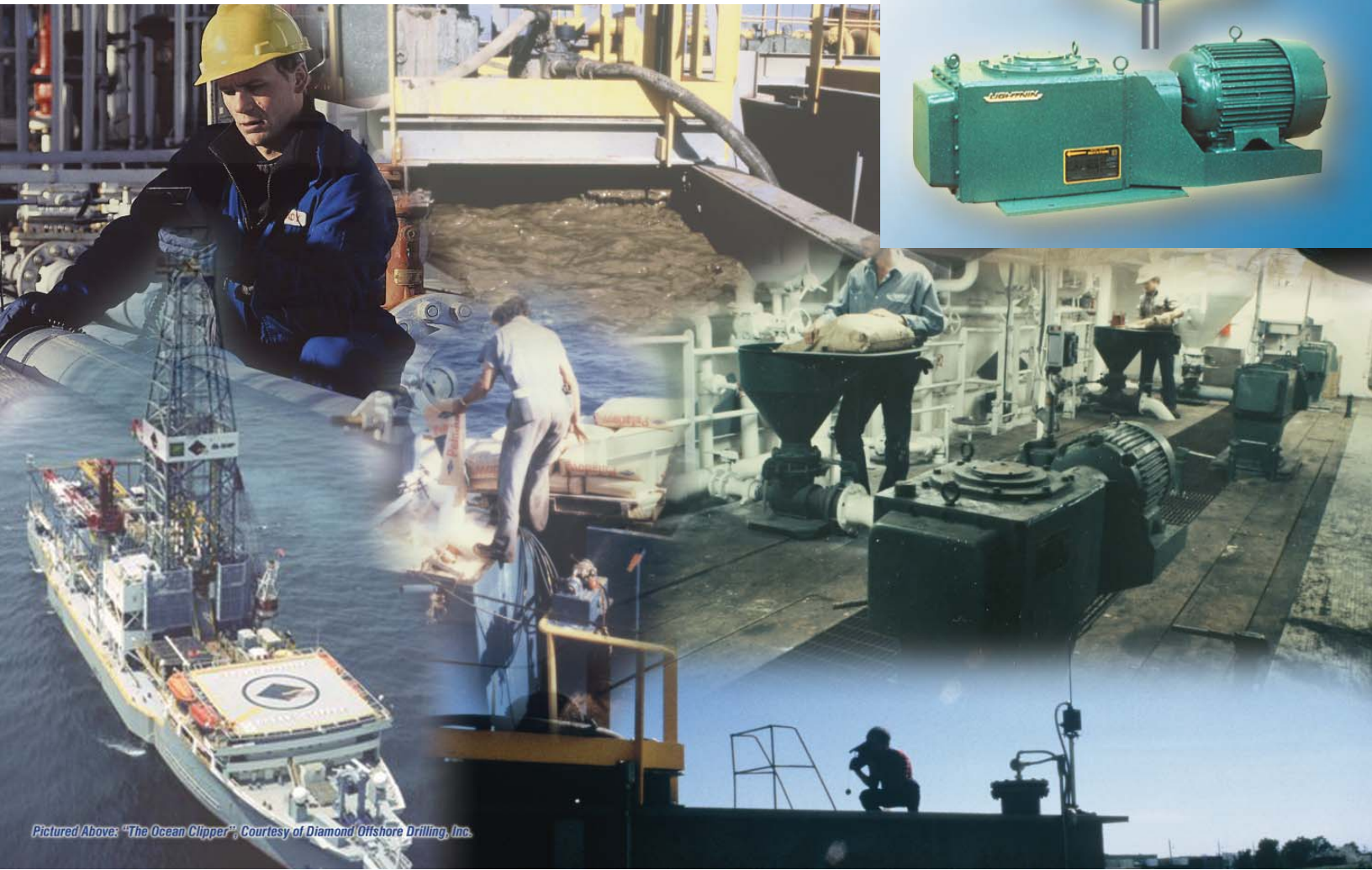
# **LIGHTNIN**<sup>®</sup>

An SPX Process Equipment Operation

**SPX** Process Equipment

## **LIGHTNIN** The “Original” Mud Mixer

*Serving Drilling Contractors  
For Over 50 Years*



*Pictured Above: "The Ocean Clipper", Courtesy of Diamond Offshore Drilling, Inc.*

# **LIGHTNIN®** has over 80 years of unrivaled experience in mixing technology, process knowledge, and technological innovation.

## **Dependable Performance**

*LIGHTNIN* guarantees the performance of the mixer as well as the mixing result.

*LIGHTNIN* mud mixers are designed and engineered to provide complete suspension of the mud and cuttings. This provides a uniform feed to the mud cleaning equipment regardless of the mud weight. This results in sending less sand and silt back into the mud pumps and into the hole, reducing wear and increasing the life span of pump liners, drill string, bearings and other moving parts. Efficient mixing also minimizes the solids build-up on tank bottoms and helps keep mud weights uniform.

*LIGHTNIN's* unrivaled, patented, Hydrofoil high-flow, high-efficiency style impellers are used to develop the highest flow achievable for solid suspension and blending.



*Axial A510 Impeller*

Equal power is not equal mixing – *LIGHTNIN's* axial flow impellers provide more mixing at the same motor power than competitive impellers.

## **Durable Design**

With over 80 years of mixing design experience, *LIGHTNIN* provides equipment that will meet the rugged requirements of mud mixing service. The result is dependable trouble-free mixers that require less maintenance.

All internal gearbox components are sealed against the effects of chemicals, heat and moisture.

*Right Angle Drive Mixer*



## Less Maintenance

- Exclusive helical gear construction minimizes gear wear that often plagues worm gear designs.
- Oversized bearings and shafts increase life and decrease maintenance.
- Splash lubrication provides constant, worry-free flow to all critical areas.
- Dry well construction.
- No steady bearings.

## Low Profile

- Some mud systems require a low profile mixer to accommodate headroom requirements. *LIGHTNIN* right angle drives have a very low vertical profile.

## Other Features

- Integral foot-mounted or flange-mounted configurations.
- One piece shafts as standard. Optional couplings with rabbet/spigot fit to assure alignment.
- Special paint and other options when your installation requires them.
- Worldwide sales and service network, mixer repair, gearbox repair, and replacement parts programs.
- Rugged overhung shaft design eliminates the need for steady bearings.
- Slap/limit rings are optional for dynamic applications.

*LIGHTNIN products can be built and certified to meet the requirements of CE, ATEX, PED, GOST, GGTN (including technical passports), NORSOK, VIK, as well as other certifications that might be required.*



*Other Drive Configurations also available.*



# The *LIGHTNIN* Team

*Use us as an extension of your development or problem solving team...*

The *LIGHTNIN* Applications Support Group is ready to help you solve any challenging new mixing application, improve your mixing productivity or help you scale-up your process. No matter how difficult your mixing challenge may be, chances are we've seen, worked with it, and know how to solve it.



We can simulate your application in our fully-equipped testing laboratory, optimize it and give you a detailed report, with suggestions on the equipment, technology and processing parameters. This capability along with Computational Fluid Dynamics (CFD) is used to design mud mixers in the columns of semi-submersible drilling rigs with multiple impellers and shaft lengths of 40 feet without steady bearings.

- Save Time & Money
- Satisfaction Guaranteed
- Let Us Help With Your Next Project



For more information about our worldwide locations, approvals, certifications, and local representatives, please visit our web site.

**Web Site:** [www.spxprocessequipment.com](http://www.spxprocessequipment.com) • **E-Mail:** [lightnin@processequipment.spx.com](mailto:lightnin@processequipment.spx.com)

## **SPX** Process Equipment

### Your local contact

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SPX Process Equipment reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Certified drawings are available upon request.

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