The “Original” Mud Mixer
SERVING DRILLING CONTRACTORS FOR OVER 50 YEARS
Lightnin has 90 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. Equal power is not equal mixing – Lightnin’s axial flow impellers provide more mixing at the same motor power than competitive impellers.

**DURABLE DESIGN**

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.

**CFD - COMPUTATIONAL FLUID DYNAMICS SOFTWARE**

LDV data and scale model testing is augmented by state of the art Computational Fluid Dynamics (CFD) software. CFD models the combined dynamic effects of impeller design, vessel geometry and fluid properties. This powerful capability allows quick evaluation of existing process mixing problems, and significantly reduces the cost of pilot scale experiments and full scale trials.
HIGH-EFFICIENCY IMPELLER TO MATCH YOUR PROCESS NEEDS

A510 - Low blade solidity hydrofoil, recommended for low viscosity blending and solid suspension applications:

- Varying tip chord angle allows for further optimization of mixer selection.
- Maximizes flow generation while minimizing fluid shear and minimizing loads on the agitator drive.
- Generates the same flow as a pitched bladed turbine (A200) for 60% of the power and 50% of the torque.

LESS MAINTENANCE

- Helical/Bevel 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 is standard on these Lightnin mixers protecting the equipment from lubrication loss.
- Lightnin's strong gearbox design allows longer shaft lengths which removes the need for steady bearings in many cases.

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

- Lightnin mixers can be beam mounted directly on open tanks or flange mounted on closed tanks with shaft seals.
- 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 product can be built and certified to meet the requirements of CE, ATEX, PED, GOST, RTN (including technical passports), NORSOK, VIK and DNV DRILL(N), as well as other certifications that might be required.
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TECHNICAL SERVICES
With more than 90 years experience in the manufacture and supply of agitation equipment, we know what parts need to be on hand to support our customer base so that your downtime is minimized. The Lightnin brand after sales support teams are on call to offer advice, support on-site installation and commissioning, servicing of equipment, or supervise and train your maintenance staff in best practice care of equipment.

SERVICE SUPPORT & REFURBISHMENT
The equipment audit is specifically designed to identify potential mechanical problems before they occur. Using many forms of modern technology and drawing on our mixer manufacturing experience, our technicians can identify the onset of bearing and gear failures, misalignment and system problems without the need to interrupt production. Factory gearbox exchange and refurbishment programs offer a fast and cost-effective route to extending equipment life.

SPX FLOW, Inc. - Global locations

USA
13320 Ballantyne Corporate Place
Charlotte, NC 28277
United States of America
+1 704 752 4400

CHINA
2F, Treasury Centre
No. 1568 Huashan Road
Shanghai 200052, China
P: +86 (21) 22085889

UK
Ocean House, Towers Business Park
Didsbury, Manchester
M20 2LY, UK
P: +44 161 249 1170

MIDDLE EAST FZE
P.O Box 299745,
Downtown Jebel Ali
The Galleries 4
Dubai, U.A.E.
P: +971 4 8143400

For other Sales locations, click www.spxflow.com/lightnin\contacts\where-to-buy\ or use your SmartPhone and the QR Code.

SPX FLOW, LLC - LIGHTNIN & PLENTY MIXERS
135 Mt. Read Blvd.
Rochester, NY 14611
P: (888) 649-2378 (MIX-BEST), US and Canada) or +1 (585) 436-5550
F: (585) 436-5589
E: lightnin@spxflow.com • www.spxflow.com/lightnin

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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. Please contact your local sales representative for product availability in your region. For more information, visit www.spxflow.com.

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