SPXFLOW

Series 10 Mixers

TOP-ENTRY MIXERS





A World Leader in Industrial Mixing since 1923, Lightnin has 90 years of unrivaled experience in industrial mixing technology, process knowledge, and technological innovation. Lightnin enjoys a global reputation for durable, long-lasting mixers, agitators, aerators, and flocculators for fluid process systems. We offer a full spectrum of impeller designs for diverse applications. In addition, we offer a worldwide service network, mixer repair, gearbox repair, and replacement parts programs. Look to Lightnin for knowledge, technology, and service excellence.

SPX FLOW, Inc. (NYSE:FLOW) is a leading manufacturer of innovative flow technologies, many of which help define the industry standard in the market segments they serve. From its headquarters in Charlotte, North Carolina, it operates a sales and support network, centers of manufacturing excellence, and advanced engineering facilities, throughout the world. Its cutting-edge flow components and process equipment portfolio includes a wide range of pumps, valves, heat exchangers, mixers, homogenizers, separators, filters, UHT, and drying technology that meet many application needs. Its expert engineering capability also makes it a premium supplier of customized solutions and complete, turn-key packages to meet the most exacting of installation demands. Incorporating many leading brands, SPX FLOW has a long history of serving the food and beverage, power and energy, and industrial market sectors. Its designs and engineered solutions help customers drive efficiency and productivity, increase quality and reliability, and meet the latest regulatory demands. In-depth understanding of applications and processes, state-of-the-art Innovation Centers, and advanced pilot/testing technology further assist in optimizing processes and reducing timescales to reliably meet production targets. To learn more about SPX FLOW capabilities, its latest technology innovations and complete service offerings, please visit www.spxflow.com.

Lightnin Series 10 Mixers - Durable, Versatile, Cost-effective

One look at this rugged design will tell you, Lightnin's field-proven Series 10 is no ordinary mixer. In thousands of installations and hundreds of applications worldwide, Series 10 mixers deliver a superior combination of value and performance. **Comes with Lightnin's process guarantee.**

UNMATCHED DURABILITY

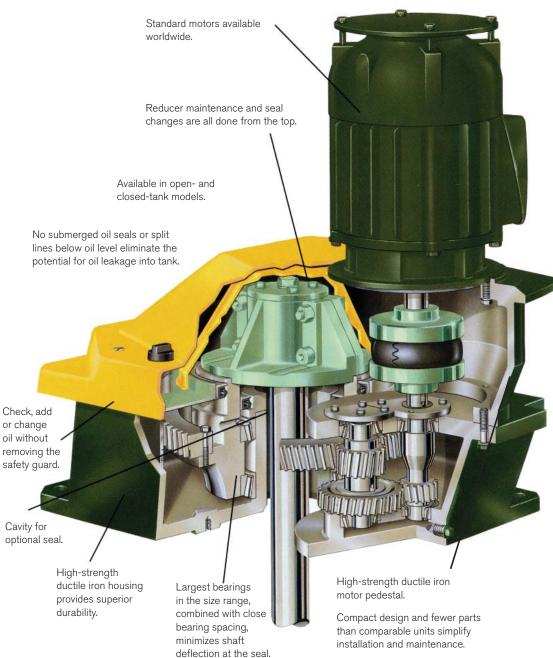
- Long gear and bearing life: The largest tapered roller bearings in a mixer of this class help produce an L10 life of 100,000 hours and greater. Designed specifically for mixer service, Series 10 speed reducers are capable of handling large variations in mixer loads, adapting to different process conditions and accommodating long overhung shafts. "Off-the-shelf" speed reducers not designed for mixer service can't make this claim.
 - In addition, high-quality carburized and ground gearing features a minimum AGMA Service Factor of 1.5 for long life and added protection against shock loading.
- Unique output shaft connection the largest of any competitive unit reduces shaft deflection to extend seal life: Greater mechanical stiffness reduces deflection at the seal (less than 0.26mm / 0.010 inches) compared with seal-on-a-sleeve or cartridge designs. As a result, you'll be able to specify longer overhung shafts and replace seals less frequently. When servicing is called for, there is no output shaft seal on any mixer in the world that's quicker (30 minutes or less) or easier to replace.

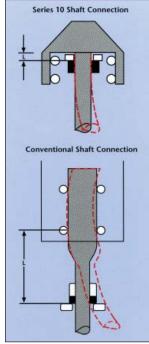
EXCELLENT VERSATILITY

- Wide range of output speeds: Select the combination of output speed and torque that meets your mixing requirements. Output speeds from 9rpm to 125rpm; 0.75kW to 22kW (1hp to 30hp).
- Choice of motors: Select the motor that's consistent with your specific plant standards. A wide variety of motor options is available, including explosionproof and multiple-speed units.
- Longer shaft lengths accommodate a wider range of tank
 configurations: Carbon steel or 316 stainless steel shafts are standard.
 Shafts in excess of 9 meters (30 feet) in length let you specify Series10
 mixers for large tanks without the need for steady bearings. High alloy and composite shafts are also available.
- Choice of mechanical seals: Closed-tank mixers can be equipped with dry-running single mechanical seals or lubricated double mechanical seals for hazardous materials and higher-pressure applications.

- Optional seal pedestal design eliminates temperature constraints: Series 10 mixers can be mounted on a pedestal to permit operation up to vessel temperatures of 204° C (400° F).
- Dry-well construction and no submerged seals prevent oil leakage: An integral reducer
 housing with dry well construction prevents oil loss, as well as the risk of product contamination. The
 reducers simply can't leak; even when the mixer is mounted on angle risers (shown below). In addition,
 the absence of submerged oil seals or split lines below the oil level prevent leakage over the tank or into
 the product.
- International Legislation: Lightnin Series 10 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.

THEORY OF OPERATION:





Distance between seal face and rigid support (L) is shorter in Series 10 design compared to conventional design, minimizing shaft deflection at seal face.



Our dry well construction removes the risk of lubrication leakage into the mixing chamber. The bearings are immersed in the gearbox lubrication which ensures that they continue to perform under high loads. Oil changes are made easy with our NEW tall pedestal which allows a 5 USGal. (20 liter) pail to be placed beneath the oil drain.



Optional angle riser brackets let you save up to 15% on tank costs by eliminating the need for baffles.

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LOWER OWNERSHIP COSTS

- Fewer moving parts simplifies maintenance: Series 10 mixers let you reduce spare parts inventory, frequency of repair and servicing costs.
- Perform routine maintenance quickly: Check, add or change oil without removing the high-strength safety guard. Synthetic oil needs to be changed only once a year. Oil-lubricated gears and bearings do not require grease servicing.
- **Easy, fast seal replacement:** Seals are replaced from the top of the mixer without disturbing the shaft. Fast replacement means more uptime and lower maintenance costs.
- High-efficiency helical gearing provides more usable power: Efficient in-line helical gearing and parallel shafts minimize horsepower loss through the drivetrain. As a result, virtually all the power you pay for is transferred into the mixing vessel.

30 - MINUTE SEAL REPLACEMENT





Seal changes are performed in less than 30 minutes. Simply loosen hardware and lower the shaft support collar onto the hub shoulder (1). Once the split coupling has been removed (2), lift off the seal assembly and replace with a new or rebuilt unit (3).







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



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ISSUED 11/2015 B-633

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