

Series 700/800 Mixers

HEAVY-DUTY STANDARD DRIVE MIXERS



A World Leader In Industrial Mixing Since
1923. Lightnin has over 85 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.

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader. The company's highly-specialized, engineered products and technologies serve customers in three primary strategic growth markets: infrastructure, process solutions, and diagnostic systems. Many of SPX's innovative solutions are playing a role in helping to meet rising global demand, particularly in emerging markets, for electricity, processed foods and beverages and vehicle services. The company's products include thermal heat transfer equipment for power plants; power transformers for utility companies; process equipment for the food & beverage industry; and diagnostic tools and equipment for the vehicle service industry. For more information, please visit www.spx.com.

The Biggest, Heaviest Duty Standard Drives Made Specifically for Mixing

We gave this series the capacity to drive long overhung mixer shafts without steady bearings. We gave it the stamina to withstand severe bending and high-torque loads imposed by fluid forces in the tank. And that's something you can't expect from the large general purpose drives not designed for mixing, which others use. We make shafts for 700/800 mixers larger and stronger. We size the bearings far in excess of AGMA requirements. We conduct extensive research to document the limits of shaft and impeller performance under all service conditions.

As a result, you get longer service life with less maintenance. You get our performance guarantee. You get a mixer with an enviable track record, written by the thousands of 700/800 mixers produced in our state-of-the-art plant. You'll find our 700/800 mixers atop huge fermentation tanks in pharmaceutical production and in all manners of large scale chemical processing. You'll also find them in the dust and rock of minerals processing, as well as in the heavy sludge of waste treatment. Series 700/800 come in five case sizes, covering the range from 25 through 1250 hp. Both double and triple reduction drives are available, covering the full range of standard AGMA speeds from 230 rpm down to 11.4 rpm.

PRODUCT BENEFITS AND FEATURES

- Full Spectrum of Impellers to Optimize Results: Included are
 the A310 for flow-controlled applications, the A320 for high-viscosity
 requirements, the A315 for handling gas alone or gas and solids together,
 as well as the A6000 for applications requiring the special benefits of
 composite construction.
- Guaranteed Performance: Together, we design your rugged 700/800 mixer, selecting impeller type, shaft length and other specifications to optimize process results. Then, we guarantee your Lightnin Mixer to perform the job for which it is recommended.
- Tested 100%: Every large Lightnin mixer drive is tested under load on an advanced dynamometer. Test check gear contact patterns, noise readings, thermal data and lubrication. We welcome you to watch us test your mixer. Our goal always: Deliver factory-assembled, ready-to-go packaged units with interchangeable parts that will provide you the most efficient performance at the best possible cost.

HIGH-EFFICIENCY IMPELLERS TO MATCH YOUR PROCESS NEEDS:



A510: General Purpose New laser-designed impeller delivers true axial flow, high flow-per-horsepower, and can be custom-fit to your application.

Rugged Motor Mount

A heavy-duty channel base is the stan-

dard motor mount for Series 700/800.



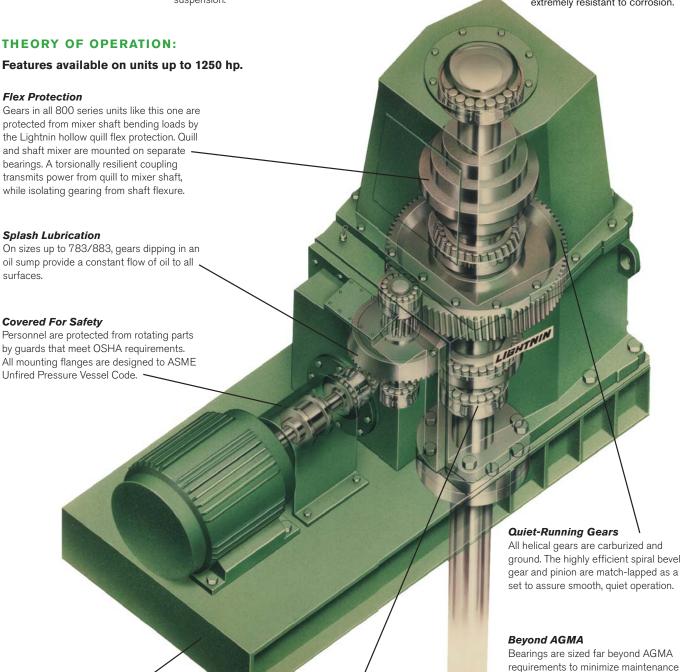
A315: Gas-Liquids-Solids Improves yield by up to 50% in shear-sensitive processes such as fermentation. The A315 is the optimum impeller for applications involving mass transfer and solids suspension.



A320: High-Viscosity
Fluid foil design reduces
blend time by half and
delivers better axial motion
for 50% power saving
compared to conventional
pitch-blade turbines.



A6000: Low Viscosity
For flow-controlled applications in hostile environments. Maintains flow and reduces power to 45% of conventional pitched-blade impellers. Structural composite is lightweight and extremely resistant to corrosion.



Oil Dam

Leakage down the mixer shaft

is positively prevented by an

oil dam around the quill shaft.

and provide long service life.

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SUPPORT FOR HEAVY MIXERS

Large Series 700/800 mixers are optimally supported independently from the mixing tank. Mixers of closed tank configuration can be mounted on their own beams or on the plant

floor above the tank. Either way, only a separate seal or stuffing box need be mounted on the tank and supported by it.

Mounting on upper floor. Note how hydraulic lifts can simplify servicing the seal.



TECHNICAL SERVICES

With more than 85 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.

Global locations

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