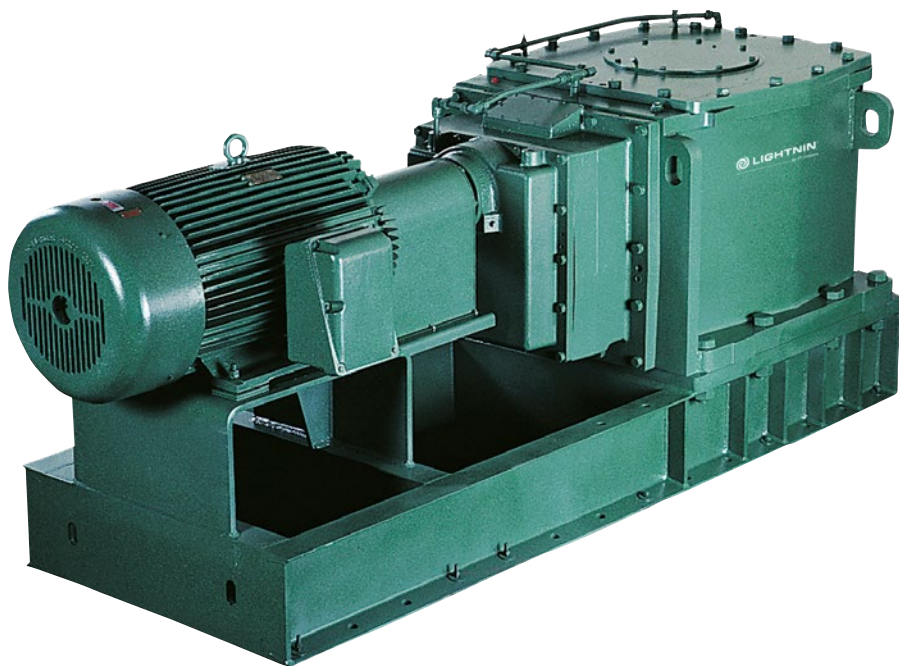


700/800 SERIES MIXERS

Heavy-Duty Standard Drive Mixers



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. 700/800 series come in five case sizes, covering the range from 18.5kW to 1000kW (25HP to 1250HP). 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 A510 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.

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.

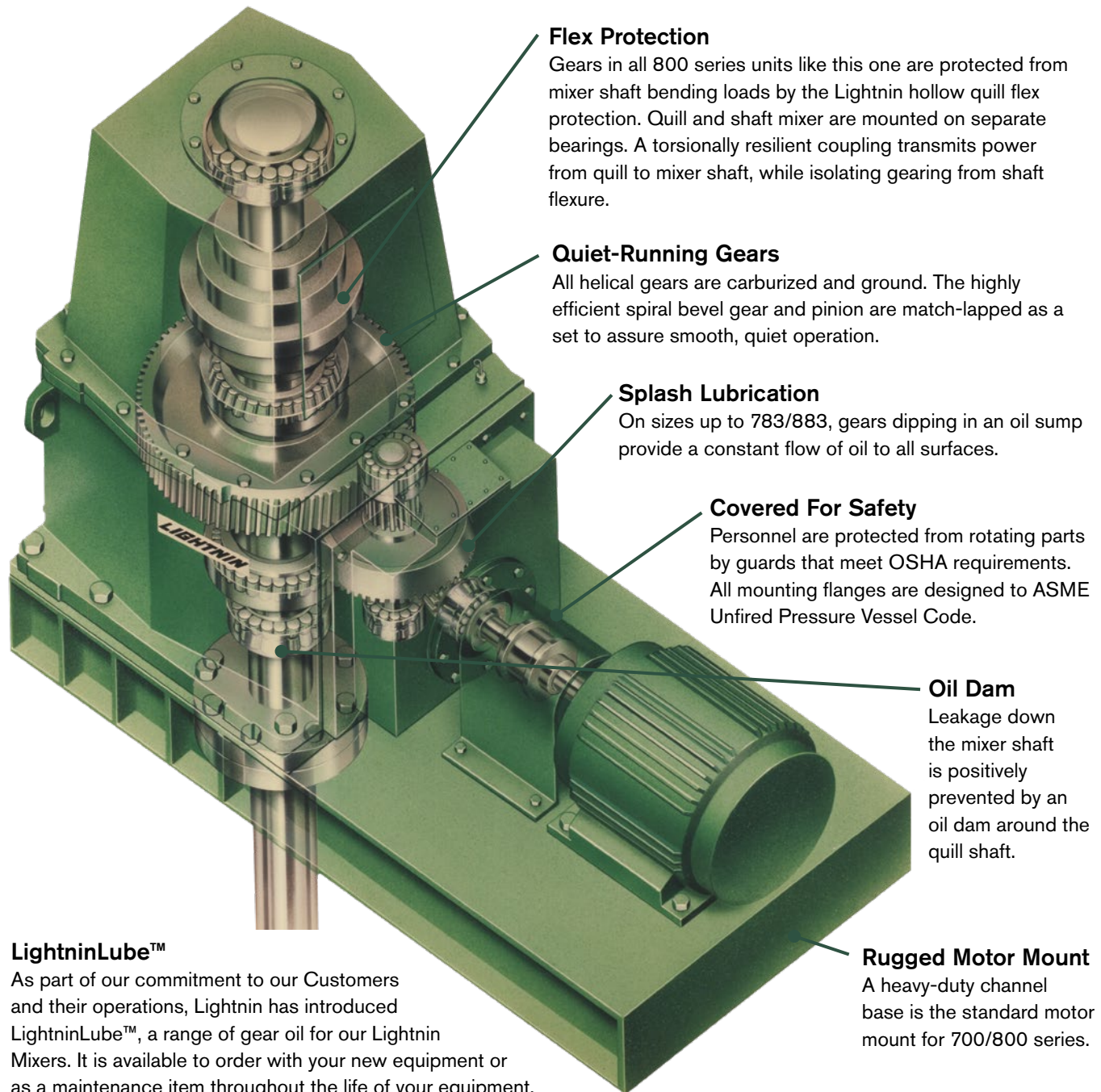
A6000: Low Viscosity



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.

THEORY OF OPERATION

Features available on units up to 1000kW (1250HP)



LightninLube is manufactured to AGMA Standard 8005-D94. Our synthetic oils are designed to give you a wide operating range and are available in ISO 100, ISO 150, ISO 220 and ISO 320 grades.

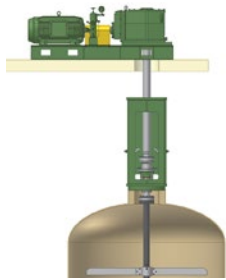
Contact our Service department or your Sales Representative to discuss your needs.

Beyond AGMA

Bearings are sized far beyond AGMA requirements to minimize maintenance and provide long service life.

Support For Heavy Mixers

Large 700/800 series 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.

Extended Warranty Protection: Backed by an Engineered for Life® 3-Year Standard Mixer Limited Warranty with 5-Year Service Option, excluding exchange and repair units, consumables and wear parts.

Technical Services

With more than 100 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. 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. Please contact your local sales representative for product availability in your region. The green "▶" is a trademark of SPX FLOW, Inc.

For more information, visit www.spxflow.com.