

>Lightnin[®]



70 SERIES

Medium Torque Top Entry Mixers



SPXFLOW[®]

THE MOST EXPERIENCED MIXER TECHNOLOGY IN THE WORLD – LIGHTNIN 70 SERIES

Over 30,000 Lightnin 70 Series mixers have been placed in service since we began manufacturing them in 1970. The same design technology is used in Lightnin 90 Series Mixers, as well as in RMX and most CMX replacement drives for older mixers. The gear train is the same as in our 80 Series Mixers. That makes the 70 Series mechanical design technology our most specified, most widely used and reliable mixer technology. It's our standard and is accepted in all of the industries we serve.

Product Benefits and Features

- **Wide Range of Power:** Lightnin 70 Series Mixers cover the range from 0.75 - 150kW (1 - 200HP). They are available in both double and triple reduction gearing, and offer speeds from 280 down to 9 rpm.
- **Motor Mounting Options:** The 70 Series is available with a choice of motor mounting options to support your needs. For units up to 30kw (40HP) our default motor pedestal helps ensure simple motor alignment. A motor bracket is available for all sizes.
- **Full Spectrum of Impellers:** 70 Series Mixers offer a full choice of impellers in order to optimize your process results.
- **Variable Speed Drives:** The Lightnin 70 Series mixers can be driven with a variable frequency drive where speed variations are needed.
- **Right Angle Gearbox Design:** Due to the right angle gearbox the 70 Series can be installed where head room may cause a restriction to other drives.
- **Guaranteed Performance:** Together we decide what mixing should do to optimize your process. Then we recommend the impeller, mixer speed, shaft length and other specifications. And we guarantee performance results that are backed up by our standard warranty.
- **Tested 100%:** We employ a non-load test run on every 70 Series and 80 Series before they are shipped.

Extended Choice of Sealing Options

Our 70 Series now offers an extended choice of mechanical seals. Included as standards across our range are simple dry running single mechanical seals. Also available are double mechanical seals with integral bearings and of course our own Lightnin Cartridge seal. The extension of more mechanical seals across our range make the 70 Series even more configurable to meet your needs - as standard.

Theory of Operation

Change Gears

Easily replaceable, helical gears are standard, so speed changes are easily made to meet new process requirements. No special tools. No need to dismantle the mixer or remove it from the tank. Heavy wall pinions provide maximum protection against damage from accidental overloads.

Positive Direct Drive

Mixer shaft slides directly into the quill, where it is rigidly coupled by a key and keyway. This design is the veteran of millions of hours of mixing.

Coupling Guards

Coupling guards meet CE and OSHA standards and protect people from moving parts.

Spiral Bevel Gears

High-efficiency spiral bevel gear and pinion are quiet running. They are precision generated, match lapped, individually mounted and micrometer checked to make sure.

Beyond AGMA

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

Motor Mount

Standard mounting assures positive alignment for flange or foot mounted motors. A machine earth grounding point is provided as standard.

Pedestal Cover

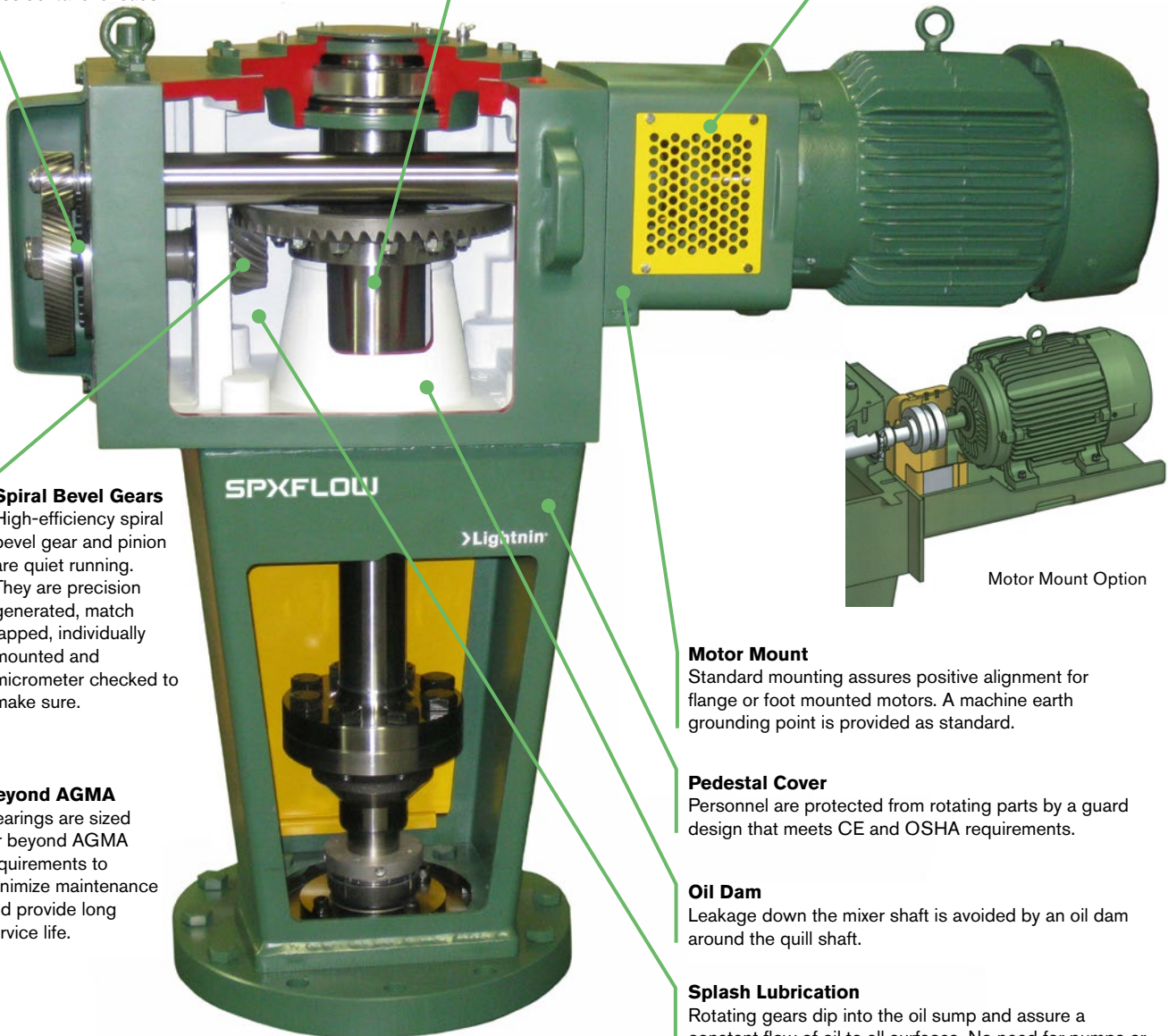
Personnel are protected from rotating parts by a guard design that meets CE and OSHA requirements.

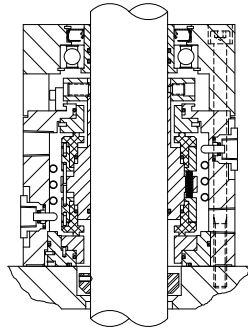
Oil Dam

Leakage down the mixer shaft is avoided by an oil dam around the quill shaft.

Splash Lubrication

Rotating gears dip into the oil sump and assure a constant flow of oil to all surfaces. No need for pumps or piping.





Double seal with integral bearing



A World Leader in Industrial Mixing since 1923, Lightnin has over 100 years of unrivaled experience in industrial mixing technology, process knowledge, and technological innovation.



Mechanical Seals

The replaceable cartridge design, a Lightnin original, is standard on 70 Series units. Light in weight. Easy to replace. Our design offers unrivaled convenience. Integral stuffing box and open tank designs also available. Each Lightnin Cartridge seal is still tested 100% prior to shipment and offers the very best in reliability while our other seal selection meet performance. Additionally we continue to supply low and high pressure stuffing boxes. All fits are dowel or rabbet to assure alignment. You'll find this Lightnin design makes for easy repacking.

LightninLube™

As part of our commitment to our Customers and their operations, SPX FLOW has introduced LightninLube™, a range of gear oil for our Lightnin Mixers. It is available to order with your new equipment or as a maintenance item throughout the life of your equipment.

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.

SPXFLOW®

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/lightnin.