

# R-SERIES AGITATORS

## The PREMIUM LINE of MIXER DRIVES

One of the most critical parts of a mixing system is the gear reducer. Ordinary commercial drives can't stand up to typical mixing requirements - The R-Series however, is no ordinary drive. Sharpe's R-Series mixer drives are manufactured specifically for mixer service by Falk, the highly respected manufacturer of gearboxes since the mid-1800's.

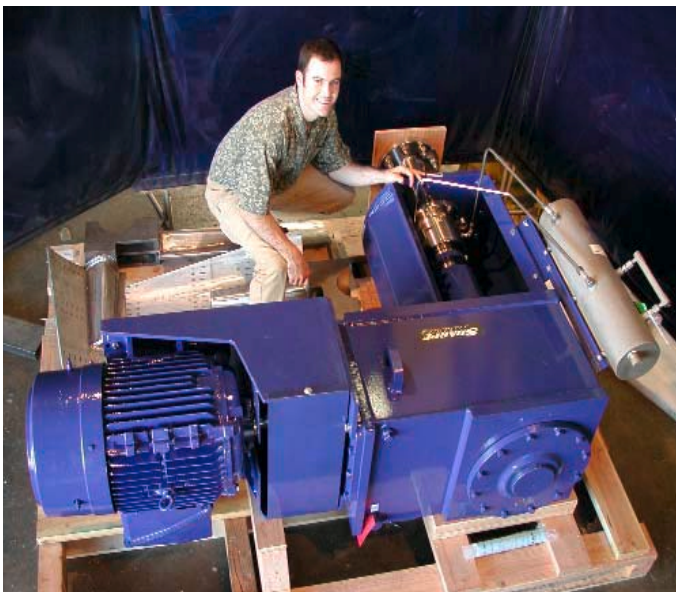


### R-Series Mixer Drives - Born and Bred for Mixing Service

R-Series Mixer Drives are engineered and built specifically to handle the unique and demanding requirements of mixing applications. These rugged drives can handle the tough mixing requirements in industries like chemical processing, pulp and paper, food processing, waste and water treatment, petroleum, mining and many other unique applications.

Ideal for heavy-duty mixing needs, rugged R-Series drives have been performance-proven through decades of operation in a diverse range of demanding installations. With a wide range of sizes available, there's an R-Series Mixer Drive for virtually any mixing application. Best of all, every one is fully backed by Sharpe Mixers and Falk - two of the most trusted names in industry.

*Some unique features that make R-Series drives stand out from the rest:*



*Pictured above is a 60 horsepower top-entering size R6 drive with a UniMech® double mechanical seal and cooling lubrication system.*

- q Oversize, High-Capacity Output Shafts** - Considerably larger in diameter than standard drive output shafts, the high-strength alloy steel shafting has excess strength to withstand high mixer shaft loads in even the toughest applications.
- q Extended Bearing Life** - Larger, long-life, grease-lubricated bearings are furnished standard with a minimum L-10 life three times that of standard commercial drives -and in excess of industry standards for most applications. The oversized tapered roller bearings used on the output shaft easily handle the high loads generated by a mixer to insure maximum bearing life.

**q No-Leak Drywell Construction** - A true drywell physically isolates the low-speed output shaft from the oil sump to prevent gear lubricants from leaking and contaminating your product. The drywell design also protects the mixer drive from possible failure from running dry.

**q Comprehensive Leak Protection** - Covers, shims, gaskets and blind-tapped end cover holes help retain lubricant, eliminate oil leakage and keep contaminants out to reduce maintenance and downtime.

**q Rugged Fabricated Steel Gearbox Housings** are built to maintain accurate gear alignment and effectively resist shock loads and stresses associated with mixing applications even under the most extreme conditions.

**q High Quality Helical and Spiral-Bevel Gearing** - Engineered to exceed AGMA standards with a reserve strength rating, the surface-hardened and precision-ground helical and spiral-bevel gears deliver smooth, strong, efficient power transmission.

The large tooth profiles provide extra strength to handle high-shock loads and provide longer gear life. Finish lapping on the gear teeth ensures smooth, quiet operation and greater gear efficiency.

**q Large Oil Capacity** - Larger oil capacity lowers operating temperatures to help extend gear, bearing and seal life. Excess oil capacity also means a cleaner-running gearbox.

**q High Horsepower Ratings** - From the R3 through the R9 case sizes, the R-Series drives range in capacity from 1 to 300 horsepower. The ratings for retrofits are often higher than the original equipment drives, which allows for system performance upgrades when replacing existing drives.

**q Fast, Easy Ratio Changes** - With helical gearing contained in the high-speed head, the R-Series gives you maximum ratio flexibility. To change ratios, simply replace the pinion and gear. For a reduction change, just replace the high-speed head with optional helical gears readily available from stock.

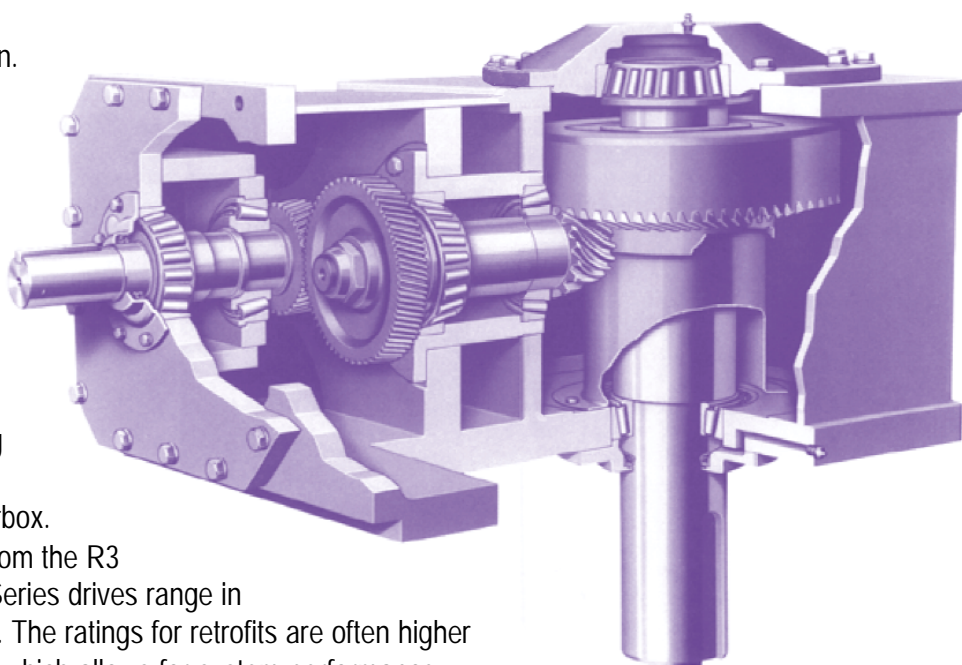
**q Full Motor Compatibility** - R-Series drives are compatible with all standard motor drivers, from NEMA C-Face to foot-mounted motors in both motor scoop mounting and piggy-back V-Belt arrangements.

**q Wide Range of Mounting and Seal Options** - From simple open-tank plate mounted units to complex mechanical seal flange mounted designs (see photo on page one), Sharpe Mixers offers a very wide range of designs to meet individual process requirements.

**q Excellent Availability** allows Sharpe Mixers to ship an R-Series replacement gearbox in just 72 hours, or even within 24 hours on an emergency breakdown basis.

**q Interchangeability** - R-Series Mixer Drives are designed for fast, easy, drop-in interchangeability with many popular Lightnin'®, Chemineer®, and Philadelphia® units. Now you can easily upgrade your existing Lightnin', Chemineer or Philadelphia drive with a quick, bolt-in Falk replacement. Standard interchange adapters provide the connection, and Sharpe Mixers engineering will make sure the retrofit is quick and easy.

**q Proven Quality** - Sharpe Mixers' and Falk's commitment to excellence is built upon a focus on simplification of design and continuous improvement in quality. Falk's quality management system is Certified to the international quality standard ISO 9001 by Lloyd's Register Quality Assurance.



**SHARPE  
MIXERS**

Contact your local Sharpe Mixers Representative for more information