



E-SERIES TOP AND SIDE ENTRY MIXERS

The Sharpe E-Series worm gear drive meets low headroom requirements without sacrificing performance. Efficient “high pressure angle” gearing provides extremely quiet operation and high shock-load capacity. The hollow quill gearbox design uses oversize tapered roller bearings for long overhung shafts, and requires no flange coupling for assembly.

Compact Right Angle Drive:

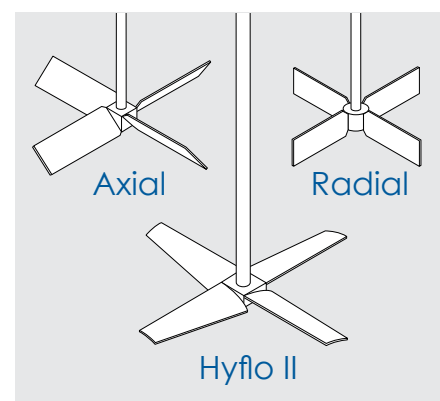
- Heat and shock loading is isolated between the motor and gearbox
- Drive housing is corrosion resistant cast iron
- Wetted parts are SS316 standard
- Carbon steel, exotic alloys, or coatings are also available

Various Shaft Seals:

- Choose among vapor lip seals, low and high pressure stuffing glands, and many mechanical seal designs
- Side entry units include a tank shut-off system to repack the gland or change the mechanical seal without draining the tank
- Premium mechanical seal design includes a radial load bearing integral to the seal housing to limit shaft vibration and extend seal life (split seals are also available)
- Seal lubricators are optional, mounted, plumbed, and tested at our factory for trouble-free start-up at your plant

Large Impeller Selection:

- Many different types of impellers are available, including axial flow, radial flow, and Sharpe's exclusive energy efficient Hyflo impellers
- Small diameter impellers are normally furnished in a sturdy, one-piece construction
- Exclusive split-hub design for larger applications, allows infinite position adjustment on the shaft, and guarantees easy removal even after years of service



E-Series worm gear advantages

- 1 The E-Series worm gear drive can deliver a much higher speed reduction (lower output speed) than comparable single reduction helical gearboxes. Operating at a slower speed offers several advantages.
 - More flow or mixing at less horsepower than mixers running at 350 or 420 rpm
 - Larger diameter shafts operate well below the first critical shaft speed and are much more stable than those turning faster, above the first critical speed
 - Larger impeller diameters, turning slower, are more effective in higher viscosity batches
 - Longer shafts are possible for mixing in taller tanks
- 2 Oversize Timkin tapered roller bearings handle heavy mixer loads and are designed for over 100,000 L-10 hours bearing life.
- 3 E-Series gearboxes can withstand momentary overloads as great as 300%.
- 4 Hollow quill gearbox design means shafts normally does not require in-tank shaft couplings.
- 5 Compact right angle drive fits in tight locations.
- 6 Heavy duty cast iron housing is more corrosion resistant than aluminium housings.
- 7 E-Series worm drives are extremely quiet, usually below 76-80 decibels.
- 8 Sharpe Mixers isolates the motor with a flexible coupling, increasing bearing and motor life.
- 9 Sharpe Mixers use standard frame c-face motors for better availability.

