



EBARA
SHARPE MIXERS

Ahead > Beyond

F-Series Mixers

PORTABLE MIXERS



EBARA Mixers (formerly known as Sharpe Mixers or Scott Turbon Mixer) designs and manufactures high performance, low-shear Sharpe mixers, high-shear Scott mixers, and turnkey mixing systems for use in the food, beverage, pharmaceutical, cosmetic, chemical, water treatment, petroleum, and mining industries. Whether your challenge is formulation development, process scale-up, or full-scale manufacturing, we offer a full range of mixing technologies and solutions to meet these challenges.

Our F-series heavy-duty portable mixers are fully configurable for your small batch mixing needs. Our direct-drive model is perfect for jobs requiring shear, whereas our gear drive model is best for handling larger volumes and higher viscosity fluids. We have the ideal solution for your operation, whether for blending, solids suspension, powder incorporation, dispersion, or dissolution. In addition, the sanitary construction features will meet your most stringent hygienic requirement.

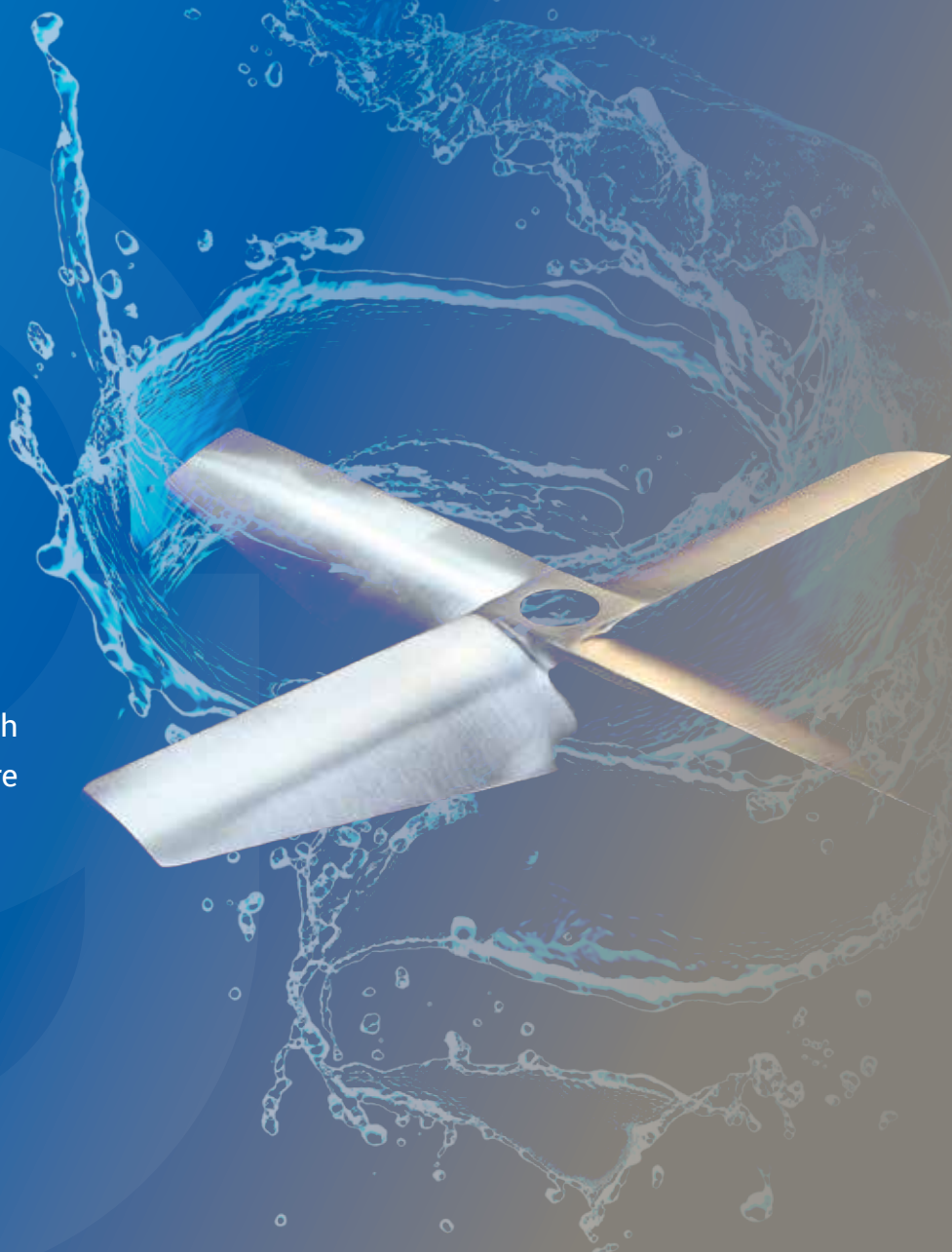
TYPICAL MIXING

Applications

- Low/high-viscosity liquid-to-liquid blending
- Solids suspension and dissolving
- Miscible and immiscible liquid blending
- Chemical reaction
- Heat transfer
- Mass transfer
- Slurry mixing
- Powder entrainment

Industries

- Food & Beverage
- Pharmaceutical & Biotech
- Cosmetic & Personal Care
- Pulp & Paper
- Petroleum
- Chemical
- Municipal
- Waste Treatment
- Mining



Heavy-Duty Portable Mixers

PORTABLE MIXERS



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DIRECT DRIVE

Our direct drive portable mixers provide high speed mixing for those jobs where greater shearing action is required and for smaller batch mixing. The high speed of the impellers (1750-rpm) creates localized high velocity eddies (high shear) necessary for many applications such as dispersing and dissolving dry powders into a solution.

GEAR DRIVE

Our gear drive portable mixers are the best choice for larger volume and higher-viscosity applications. The slower speed (350-rpm) provides the high torque necessary to mix higher viscosity fluids and the higher flow required in larger tanks. Large diameter hydrofoil impellers produce much more flow per horsepower than other mixers on the market.



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STANDARD FEATURES:

- 1 Alloy mixer housings are powder coated for maximum durability

Standard NEMA 56C frame motors are used to assure "off the shelf" availability and a wider range of motor options
- 2 Ball and socket mount allows 360° rotation and 90° vertical adjustments

Patented quick lock mounting system for ease of precise position without tools

Stainless steel c-clamp and cup platemounting options
- 3 Shaft coupling is protected from corrosion, safely located inside the sealed housing

No exposed coupling means a safer mixer

Outboard shaft bearing minimizes whip and vibration

Brass-tipped stainless setscrews eliminate corrosion and prevent marring the mixer shaft

A Viton® vapor seal protects internal parts
- 4 Oversize ¾", 1", and 1-¼" diameter shafts are used for maximum stability and long life

High-efficiency hydrofoil impellers

Shear discs or other impellers available

Stainless Steel for Superior Durability

ADVANTAGES:

- Strong SS316L investment castings make up the mixer housing, gearbox, and mounting clamp for superior durability
- Shaft coupling is sealed inside a gasketed nosecone safe from corrosion and possible accidents
- Heavy-duty lip seal below the bearing and coupling prevent moisture and dirt from reaching internal parts
- Oversize shafts of SS316 minimize whip and vibration
- Stainless steel electric motors offer wash-down duty in either single-phase or three-phase power. These premium motors feature all stainless construction including end bells and terminal boxes
- Etched name plates
- Corrosion resistant and easy to clean design
- Available in, plate, flange, ferrule, or mounting

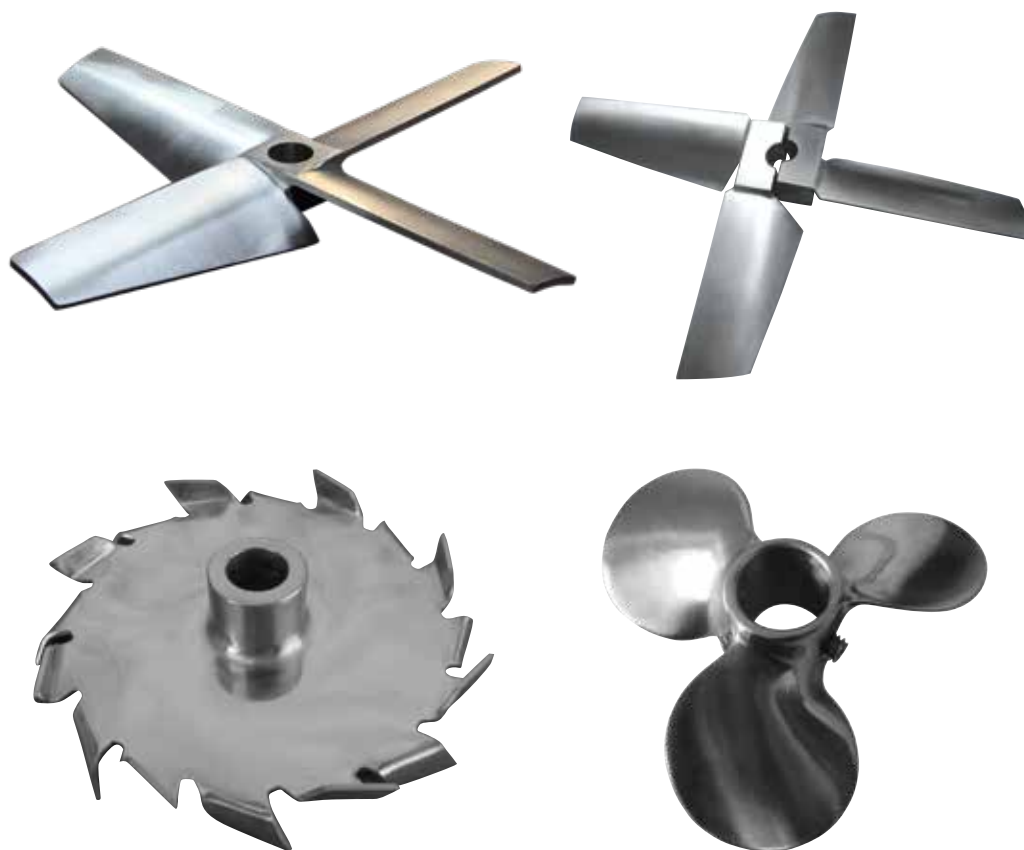


EBARA Mixer's all stainless steel mixer line represents the ultimate in sanitary mixers with the greatest resistance to corrosion and contamination. The all stainless steel construction goes above and beyond the specification for "paint-free" equipment with no plating or burnishing.

Full gasket housings and a vapor seal where the shaft enters the mixer ensure that no contamination can be caused by the mixer drive itself.

Optimizing Performance with Impellers

PORTABLE MIXERS



STANDARD FEATURES:

- SS316 hydrofoil impellers
- Polished impellers with set screw attachment to shaft. All-welded and polished shaft attachments available
- Standard 32Ra mechanical polish sanitary finish. Optional finishes to 10 Ra and electro-polish

OPTIONAL FEATURES:

- Optional one piece shaft and impeller construction with all welds polished smooth
- Optional 'easy-clean' split block hub design allows impeller removal from shaft
- Couplings, shafts, and impellers are available in Clean-In-Place, FDA, and pharmaceutical sanitary standard designs

Sharpe branded F series mixers are supplied with an efficient hydrofoil impeller style. Our four blade foil design generates the most flow for the least amount of power, reducing operating costs and delivering improved performance.

No single impeller can perform well in all applications. EBARA Mixers provides a variety of industry standard and proprietary impeller designs that are optimized for specific mixing applications.

Versatile Accessories and Mixer Options

Advantages of using lift mixer stands:

- Floor mounted or portable
- Use with multiple tanks
- Simplifies cleaning and maintenance
- Ability to secure portable tanks to mixer for safety
- Adjustable height for different tank sizes

STANDARD FEATURES:

- High quality SS316 stainless steel or epoxy coated mild steel construction
- Available in 36", 48", and 60" sizes
- Heavy duty construction for sturdy operation
- Chrome plated or solid stainless counterweights are available to balance the mixer weight
- Bolted base design for easy assembly, storage, and shipment
- Available with locking tank positioning clamp and strap
- Locking casters, adjustable leveling glides, or floor anchoring
- Standard X-legs or optional square base

LIFT MIXER STANDS

Our electric, air, and manual lift stands are used for portable mixers and designed for quality, ease of use, and versatility. Our unique design is clearly the best choice for a sturdy, compact, stable, and easy to clean stand. The modular construction offers simple and precise adjustment for various applications.



Air-Lift (ALS) Mixer Stands

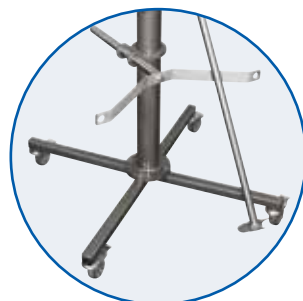
Air cylinder is enclosed within a sealed column for protection and cleanliness. The oversized cylinder ram is mated with a stainless torque arm and polyurethane glide bearing for smooth and stable operation.

- Fully adjustable tank positioning arm
- 2" wide nylon ratcheting tank strap
- Height-lock positioning collar



Electronic-Lift (ELS) Mixer Stands

- ½-hp SS wash down motor
- Oversize SS worm gear drive
- Pendant switch for raising/lowering
- Optional c-clamp adapter
- Optional clamp on tank position arm



Manual-Lift (MLS) Mixer Stands

Easy to use manually adjustable mixer lift stand for cup plate mounting.

- Mild steel or stainless steel stand construction
- Available in 24", 36", and 48" sizes
- Tightening bolts for height adjustment
- Optional c-clamp adapter
- Optional clamp on tank position arm



CONTROLS

Our variable speed controls are available in wash-down enclosures and stainless steel designs. Sensors and tachometers can be incorporated in the mixer drive to unite with plant control systems.

MOTOR OPTIONS

EBARA Mixers offers a choice of 1 phase or 3 phase motor options for quick shipment, including stock TEFC, wash-down, and all stainless steel.



STANDARD FEATURES:

AC Controller – 1 Phase (VFD)

The VFD Drive is a variable speed control in a NEMA-4X wash-down enclosure. The drive can be mounted directly to motor or tank sidewall.

- Designed for 1-phase, 110/220-volt input
- Works with 208-230 Volt 3-phase inverter ready motors
- Easy to install and operate
- ¼ to 1 Horsepower motors

AC Controller – 3 Phase (VFD)

Adjustable speed Inverter control for AC motor. Wash-down duty NEMA 4X/12 enclosures. Can be mounted to wall or tank sidewall.

- 3-phase, 208-230-volt input
- Designed to work with 3-phase inverter ready motors
- Includes digital display, push button control, and programming
- 1 to 20 Horsepower motors

About EBARA Mixers

When it comes to manufacturing high-performing, durable, and cost-effective mixers and mixing systems, our Sharpe Mixers and Scott Mixers brands are the gold standard - trusted by hundreds of companies.

We have over 50 years of experience, we design and build high-performance low-shear and high-shear mixers, along with turnkey systems for sanitary, industrial, and municipal applications.

Whether you're tackling formulation development, process scale-up, or full-scale production, our Sharpe and Scott brands provide a complete range of mixing solutions to meet your needs.

At EBARA Mixers, we're dedicated to making your job easier, your products better, and your operations more efficient.

Sharpe Mixers, Scott Mixers, and EBARA Mixers are proud to be part of the EBARA Corporation.

Founded in 1912, EBARA Corporation is recognized as a world leader in the design, development, and manufacture of industrial machinery.



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