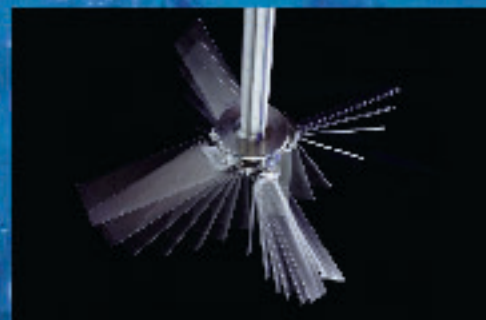
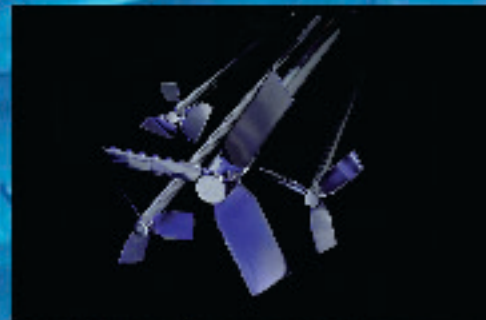
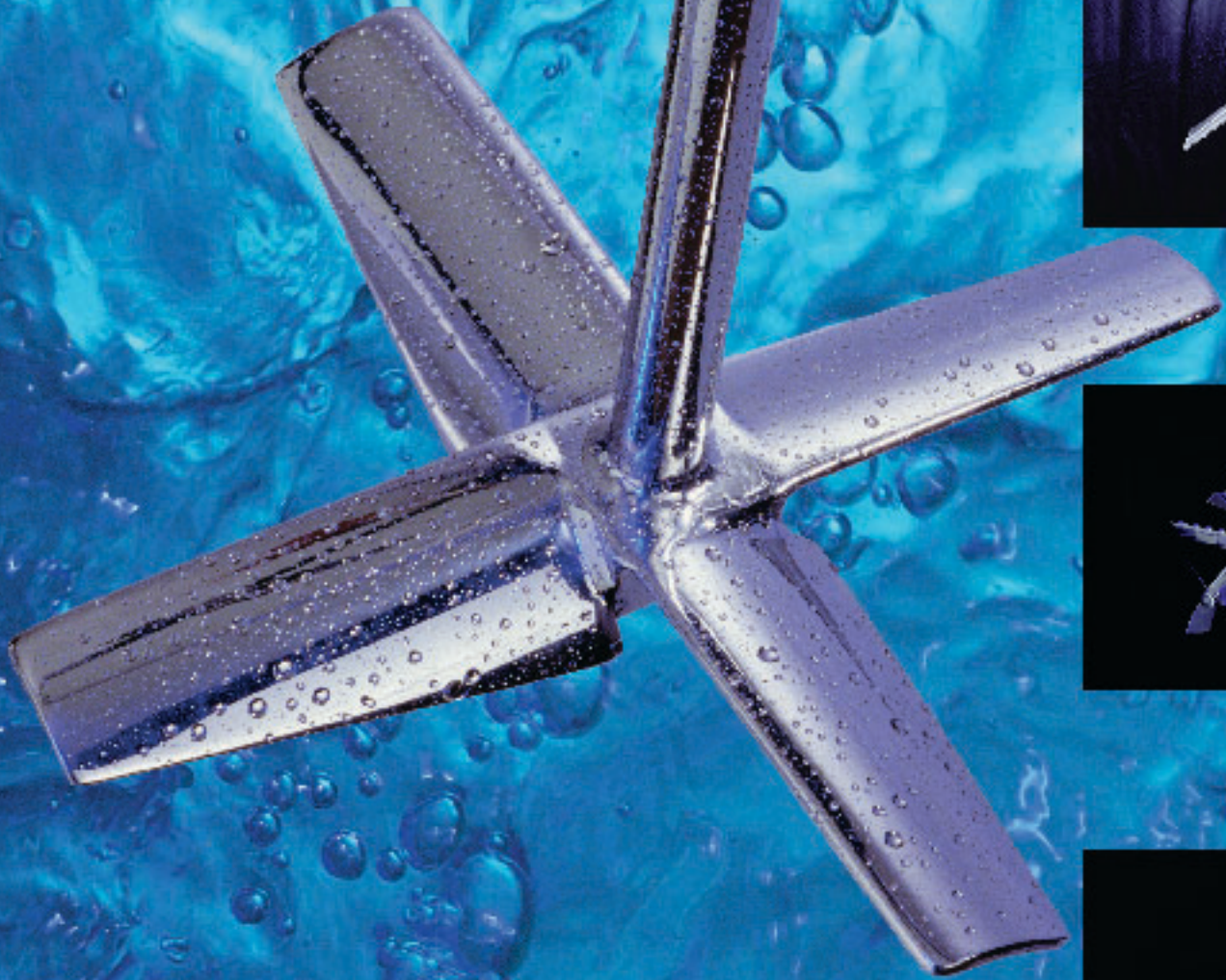


SHARPE MIXERS

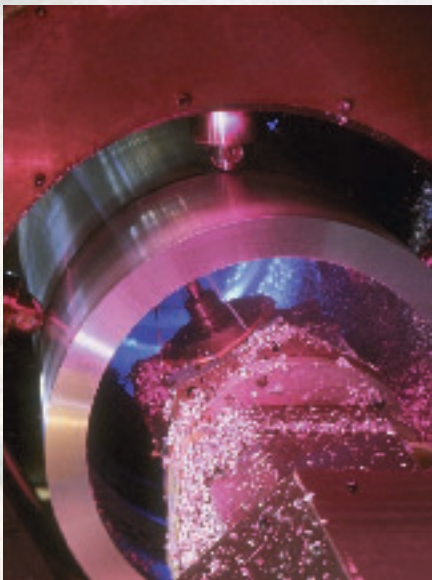




We're Making Waves . . .

Founded in 1953 (as The Burhans-Sharpe Company), Sharpe Mixers has dedicated over 50 years to liquid mixing equipment. Innovative problem solving and our advancement in mixing technology have gained us recognition as a "preferred choice" agitator manufacturer. Good reputations don't come easily. Ours has been forged through a commitment to uncompromised quality in engineering, manufacturing and service. Each customer has different needs, and our customers come back because of our ability to meet those individual needs.

Seattle is home for one of the world's largest shipping ports, aircraft manufacturers, computer software giants and Sharpe Mixers. The wealth of talent and capacity in the Pacific Northwest is vast, helping us provide aerospace quality manufacturing using leading edge technology.



(Above) A large shaft sleeve is precision line-bored using a conventional engine lathe process.

(Above right) The final welds are applied on a split hub 92" diameter Hyflo II impeller. The blades have been pitched and fixture-welded for proper balance.



Experience • Service • Design

The applications group will draw upon over 150 cumulative years of knowledge in liquid mixing when sizing your equipment. Every mixer built is backed by this experience, so you can be confident that your Sharpe Mixer will do what we say it will do.

Our expertise is in providing solutions for mixing problems. Applications engineers will work together with you and your local Sharpe Mixers representative to define the process and equipment requirements for your application. A detailed proposal will quickly be delivered describing the best mixer for your needs. Order processing, engineering and production personnel will provide this same level of personal service. Whether it is a special process or a mechanical specification, attention to detail throughout the organization assures that each customer's unique requirement is met.

Two primary objectives of the applications and design teams are to provide maximum yield and energy savings for the customer. Required process result, tank geometry, impeller characteristics, and mechanical design are all considered when sizing the equipment to produce ideal mixer selections. Every selection is closely scrutinized using our exclusive Q1 analysis computer. This thorough modeling system examines dozens of mixing parameters and optimizes mechanical design as well. Engineers design the mixer full scale on one of our CAD stations, incorporating the tank layout to assure a perfect fit. When you buy a Sharpe Mixer, you know it will work right the FIRST time.



Testing Facilities

Sharpe Mixers provides equipment to a wide variety of industries, from pharmaceuticals to mining and waste treatment. For best results on your tough mixing problems, send the materials to our bench scale laboratory so we can optimize the selection for your particular process. We will “get to know” your product through various scaled model testing procedures and computer evaluations.



(Above) An agitation system is checked on CAD and the Q1 mixer analysis program.



Product Diversity

At Sharpe Mixers we don't make your process fit our mixer, we build the mixer to fit your process. We manufacture a tremendous variety of top and side entry agitators, from 1/6 to 300 horsepower. As your “one-source” mixer supplier, we offer custom designs as well as standard product lines we keep in stock. This broad product scope allows us to make unbiased recommendations to solve your mixing problem, while others may be forced to choose from their limited equipment list. From solids suspension to gas dispersion, blending to chemical reaction, each process has unique requirements and Sharpe Mixers will design the system to satisfy those needs.

(Above left) Two 75 HP polymerization agitators undergo final inspection prior to shipment.

(Above right) Portable mixer line: All stainless steel mixer; nickel-plated mixer; white epoxy USDA wash-down mixer; standard gear drive portable; standard direct drive portable; thrifty portable mixer.

Impeller Technology

Impeller design is a key element in optimizing a mixing system. Sharpe Mixers impeller designs range from simple flat blade radial flow and axial flow turbines to elaborate double helixes and anchors, to mix fluids with viscosities from waterlike up through a million centipoise. Our exclusive family of “hydrofoil blade” Hyflo impellers was developed through extensive testing and consultation with aerospace engineers to reach the highest in pumping efficiency. Our unique split hubs offer ease of installation, adjustability and removal, even after years of service.





(Above) Shaft runout is checked on an N-Series UNIMECH™ drive.

(Below) A double flight helix/anchor impeller is one of many designs we build for more viscous products.



Shaft Seals

Sharpe Mixers offers a wide variety of seal designs from which to choose including vapor seals, packed glands and a myriad of mechanical seals. Sharpe's premium UNIMECH™ mechanical seal system includes a radial load bearing integral to the seal housing. This extends seal life, and allows the seal to be serviced without draining the tank or disturbing the mixer. Interchangeability of seal components allows easy field modifications to accommodate possible changes in the mixing process. Split seals are also available, or your mixer can be built using the seal design preferred at your plant.

No matter which seal is used, Sharpe Mixers designs always allow easy access and simple maintenance with minimum downtime.

Specialty Equipment

Sharpe Mixers is an engineering firm which manufactures mixers, and many customers return to us because we offer custom-made solutions to their mixing problems. Although we utilize mass production wherever possible for our standard model lines, many agitation systems require a more individual specialized approach. If the requirement is exotic alloys or coatings, special polishing or unique equipment designs, our team will draw on extensive experience to put together quality equipment meeting those needs. Satisfying customer specifications (i.e., special testing, packaging, painting and data requirements) is foremost in our job description. Some of our specialties include:

All exotic alloys including Titanium, Hastelloy, Inconel, Nickel, Ferralium, etc.

Polishing for food, pharmaceutical, easy clean properties or show

USDA/FDA approved mixers, all stainless mixers

Coatings: Halar, Kynar, Teflon, etc.

Coverings: rubber, FRP, PVC, etc.

Variable Speed: electric, air, hydraulic, mechanical

Applications

- FOOD AND BEVERAGE
- PHARMACEUTICAL
- PULP AND PAPER
- PETROLEUM
- CHEMICAL
- MUNICIPAL
- WASTE TREATMENT
- MINING

Sharpe Mixers' strength originates from the teamwork and energy of our people - experienced and innovative employees dedicated to providing exactly what our customers demand: superior equipment, excellent service and timely delivery at a competitive price.

**SHARPE
MIXERS**

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