



The **SC Mixer** is ideally suited for mixing or drying applications that require *finite control of reaction kinetics*. With either adjustable or high shear capabilities, this mixer routinely handles materials with a viscosity as high as 3 million Centipoise.

SC Mixers are used in research and manufacturing of: *polymerization reactions, pigment dispersions, cosmetics, adhesives, sealants, ceramics and slurries*.

The mixer can handle a wide range of pressure, temperature and reaction conditions.

Design Integrated Technology will provide a **free mix test**.

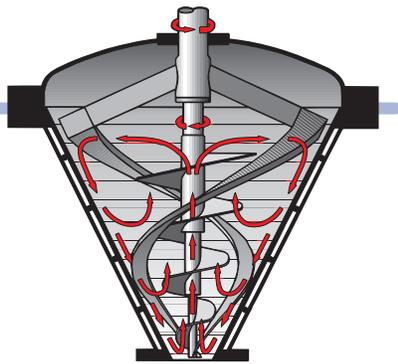
Product Benefits

Fast Mix Time

The SC Mixer is exceptionally efficient, resulting in reduced energy and labor costs. It routinely mixes batches twice as fast as other units on the market, and with top fill and bottom discharge, one person can operate a complete mixing or drying cycle.

Accurate, Repeatable Homogeneous Mixes

A significant advantage of the SC Mixer design is its ability to deliver highly accurate and repeatable homogeneous batches.



Finite Control of Reaction Kinetics

The SC Mixer's unique conical design creates a very high ratio of product contact with the heat transfer surfaces. This allows an even BTU exchange into the complete batch, resulting in a uniform batch temperature and eliminating hot or cold spots. Pressure, temperature, agitation and time can all be independently and accurately controlled. Blades are bi-directional and variable speed. Pressure ranges from full vacuum to high pressure.

Consistent Reaction Changes

The high ratio of product contact to heat transfer surfaces results in reaction changes that are very consistent throughout the mix. Temperature changes occur very uniformly throughout the batch.

Mixes High or Low Viscosities

The SC Mixer is unusually robust, with beefy gear boxes, blades, and torque ratios. This mixer is designed to handle many different applications, and easily mixes recipes with viscosities ranging from soup stock to over 3 million Centipoise.

Accurate Scale Up

Small laboratory batches mixed in the SC Mixer can be used to accurately predict large batch recipes and mix times.

Fast, One-person Fill and Discharge

One person can quickly fill and discharge the SC Mixer. Because of the blades downward pumping action, there is no expensive secondary discharge station required. When necessary, ingredients or product can be added or withdrawn in a closed environment by one operator.

Phase Changes and Drying

The SC Mixer is used throughout the industry for phase changes and drying operations. The mix can start out as a solid, change to a liquid, then dried.

Personalized, Quick Service

Every DIT Mixer is supported by local easy-to-contact representatives located throughout the United States. With a toll-free line for service and quotations, you are assured of fast answers to any question or concern regarding our mixers.

Customized to Your Application

Our SC Mixers are used in hundreds of applications throughout the world. Whether you have a small laboratory or a large manufacturing operation, our engineering staff will work with you to develop the optimum solution to your mixing needs.

Two Year Warranty

All new DIT Mixers and Blenders carry a two year warranty covering all components, excluding normal wear. When you see our mixer, you'll know why this is possible, they are robust and well-engineered. Before shipment, every mixer is fully assembled and thoroughly tested. DIT quality speaks for itself. But more importantly, we back it up with our two-year warranty.

"DIT Helicone mixers are excellent for low sheer applications and multi-density material mixing"

— Chris Cruce
VP Production
Development



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