

BETTER EMULSIONS. FASTER DISPERSION. MORE EFFICIENT PROCESSES.

Our variable-speed rotor stator is designed for high-speed dispersing, mixing, size reduction, and deagglomeration, delivering significant process efficiencies.

Requiring liquid in the batch at all times, it generates mechanical shear by continuously drawing product into the rotor and expelling it radially through precision-milled stator openings.

This high-shear design produces greater shear force than a traditional open-disc sawtooth disperser blade, improving dispersion across paints, resins, inks, coatings, adhesives, and more.

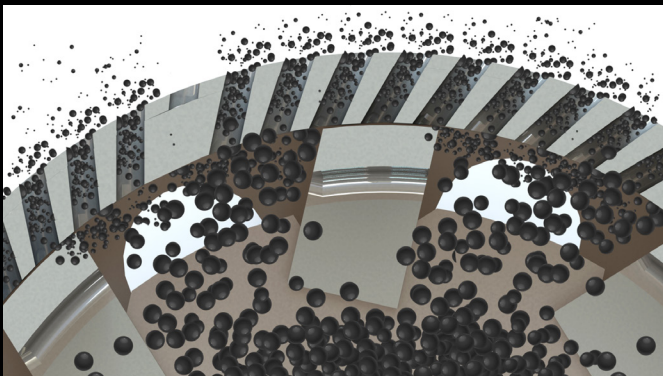
If you have a product to evaluate, trial equipment is available.

BETTER EMULSIONS





*Above: Rotor stator particle flow
Below: Rotor stator shearing process*



HOW IT WORKS |

A rotor spins within a slotted stator at very high speeds, functioning as a centrifugal pump. This force draws material into the rotor and expels it against the stator slots. The resulting radial velocity and impact break down the product against the stator surfaces, creating intense shear that reduces particle size. The material is continuously recirculated through this process, ensuring thorough and consistent dispersion.

THE ROTOR STATOR DIFFERENCE |

The ultra-high-shear design achieves dispersion significantly faster, improving overall process efficiency. Compared to a standard high-shear blade, a rotor stator system can reduce production time by up to 90%. Depending on the application, it may also eliminate the need for additional steps such as grinding, milling, or secondary mixing, reducing equipment requirements and cleanup time.

EFFICIENT RESULTS |

The Schold rotor stator enables dispersing, emulsifying, homogenizing, dissolving, milling, mixing, and blending in a single system. It effectively reduces even the toughest agglomerates, incorporates liquid additives, and promotes proper wet-out, resulting in a consistent, stable dispersion. Custom builds are available to match your process requirements. Contact us to get started.

WHY CHOOSE SCHOLD

For more than 75 years, Schold has delivered client-focused solutions built around quality, innovation and trust. We offer both standardized equipment and fully customized systems designed to meet your exact application needs.

From installation through ongoing support, our team is committed to providing exceptional service. With Schold, you're getting more than machinery—you're getting a long-term partner dedicated to your success.

