



Disperser Series



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QualiDisp™ Series is a Disperser product family built for fast, repeatable dispersion and mixing in lab and pilot workflows. These systems help you break agglomerates, improve wetting, and create stable emulsions or uniform suspensions. The lineup covers high-shear mechanical dispersion and ultrasonic dispersion, so you can match energy input to viscosity, particle size targets, and batch volume. Each platform supports practical setup, controlled operation, and consistent results across operators.

What QualiDisp™ Is Designed to Do

Dispersion problems usually show up as clumps, settling, uneven color, or unstable emulsions. QualiDisp™ systems deliver controlled shear or ultrasonic cavitation to reduce those issues. You can use them to shorten mixing time, improve repeatability, and reduce rework during formulation screening. The result is a more uniform sample that is easier to test, compare, and scale. Product selection depends on volume range, material viscosity, and the level of deagglomeration you need.

Applications

- Pigments, inks, and coatings
 - Disperse pigments and additives to improve uniformity, color consistency, and stability during screening and QC.
- Cosmetics and personal care
 - Improve emulsification and powder wet-out for texture consistency and stability evaluation.
- Pharma and biotech sample prep
 - Create uniform suspensions before downstream testing where repeatability matters.
- Nanomaterials and advanced materials
 - Use ultrasonic dispersion to break agglomerates and improve distribution for graphene, CNTs, and fine powders.
- Food and beverage formulation
 - Support consistent mixing and emulsion preparation for lab trials and process development.

Comparison Table

Product	Best For	Dispersion Method	Typical Strengths	Typical Limitations
QualiDisp™ HS	General lab dispersion and emulsification	High-speed mechanical shear	Fast mixing, broad-use disperser for daily workflows	Not ideal for the most stubborn nano-agglomerates
QualiDisp™ PHS	Small-volume, portable dispersion	High-speed mechanical shear	Portable setup, quick trials, flexible bench work	Limited batch size compared with benchtop systems
QualiDisp™ Ultra Series	Fine dispersion and deagglomeration	Ultrasonic cavitation	Strong deagglomeration, better stability for difficult dispersions	More attention needed for temperature management and sonication parameters

How to Choose the Right QualiDisp™ Series

Choose a high-speed disperser when your goal is fast blending, emulsification, and routine powder dispersion. Choose the portable model when mobility and small-volume work matter most. Choose an ultrasonic disperser when stability depends on breaking strong agglomerates or when you need finer dispersion quality. Volume range, viscosity, and the material's tendency to clump are the fastest decision drivers. If you share your sample type and target volume, I can recommend the best fit within this lineup.

Why Choose QualiDisp™ Series

QualiDisp™ focuses on practical dispersion performance for labs that need repeatability. The lineup gives you mechanical and ultrasonic options under one family, which helps standardize purchasing and training. Controlled operation supports method consistency across shifts and operators. The product range also supports scaling from quick screening to larger batch processing. That makes QualiDisp™ a clean match for R&D, QC, and pilot workflows that need reliable dispersion and clear process control.



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