

## Ultra-High Shear Mixer

This Ultra-High Shear Mixer from Charles Ross & Son Company is designed for homogenizing dispersions and disintegrating large



solid particles or droplets suspended in liquid in submicron emulsions and dispersions, as well as formulations that degrade upon exposure to excessive shear. With an inline rotor/stator design, the mixing head turns at tip speeds well over 11,000 ft/min and generates complex flow patterns without sacrificing throughput. This subjects the product to intense mechanical and hydraulic shear, rapidly resulting in a very fine particle size distribution. In a typical process set-up, raw materials are combined in an agitated vessel and the resulting slurry, paste or emulsion is introduced to the mixer, which behaves like a centrifugal pumping device. Materials are fed by gravity or pumped to the mixer. When an auxiliary pump is used, the mixer can handle viscosities up to around 200,000 cP or higher.

Charles Ross & Son Company

[www.mixers.com](http://www.mixers.com) [1]

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[1] <http://www.mixers.com/>