


THE ADMIX SANITARY PROCESSING TEAM

For Batch or Continuous Mixing, Blending, Dispersing,
Emulsifying, Hydrating, and Particle Size Reduction

	BATCH PROCESSING			IN-LINE CONTINUOUS PROCESSING		
	Rotostat® Emulsifier	Rotosolver® Disperser	Rotomixx® Sanitary Mixer	Admixer™ Sanitary In-line Blenders	DynaShear® High Shear In-line Mixer	Boston Shearpump® Wet Mill / Homogenizer
Mixing Action	Strong Vortex; Excellent top to bottom motion with lower prop	High Intensity; Pulls strong vortex; Very good top to bottom motion	Moderate Vortex; Very good to excellent top to bottom motion	Continuous Flow with efficient plug flow mixing	Continuous Flow with high pumping and shear	Continuos Flow with high intensity shearing / milling
Mixing Applications	Disperse Immiscible Fluids; Hydrate Powders; Emulsions to 3 microns	Dissolve Gums and Powders; High Temperature and Abrasive Processes	Blend Miscible Fluids; Dispersing Solids	High Viscosity Fluids In-line Blending	Hydrate Gums; Particle/Droplet/Clump Size Reduction	Stable Emulsions Particle Size Reduction
Shear Rate	High	High	Low	Low	High	Very High
Circulation/ Turnover Rate	High to Very High	High	Very High	High to Very High	Very High Pumping Rates	Variable Pumping Rates (may need feed pump)
Size Reduction*	Excellent Less than 3 µm	Excellent Less than 3 µm	Fair Less than 50 µm	Moderate Less than 10 µm at High Velocity	Excellent Less than 3 µm	Excellent Down to 1 µm
Viscosity Range (cps)	25,000 - 50,000	25,000 - 50,000	50,000 - 100,000	Unlimited	1-1,000 (Newtonian) up to 50,000 cps (non-Newtonian)	over 100,000 cps
Fully Disperse, Dissolve or Hydrate Powders into Liquid	Yes	Yes	No	Some	Yes	Yes
	USDA Meat & Poultry	3-A (Std. #73-00) USDA-Dairy	3-A (Std. #73-00)	3-A (Std. #35-00) USDA-Dairy	3-A (Std. #35-00)	3-A (Std. #36-00)

*Results based on a solution of a 1 to 4 ratio of soy bean oil to water