



Shaft Deflection Troubleshooting Guide

Problem	Cause	Suggested Corrective Action
Excessive Shaft Deflection	No baffles, center mount	Add baffles or mount mixer off center
	Operation of Impellor at or near liquid level	Shut off mixer when liquid level approaches the impellor. Do NOT operate mixer in air.
	Coupling Misalignment	Align coupling so shaft is plumb and run out at the coupling does not exceed .001"
	Bent Shaft	Straighten shaft to better than .002" run out per inch of length
	Mixer operating too close to critical speed	Slow mixer down until vibration stops
	Imbalance due to weight distribution	Remove cause of imbalance, such as bent or broken impellor
	Support structure is inadequate	Strengthen support structure with cross braces
	Loading of process fluids and solids	Protect impellor from high velocity flow rates or heavy solids