



**TO: All Users of GUTH Portable Mixers**

**SUBJECT: Warnings and Helpful Hints for Users of Guth Agitators**

**ENCLOSURES: Diagram and Spare Parts List**

## **WARNINGS**

Guth Agitators for the American market have heavy duty series – parallel wound motors wound for 230-460 volt, 3 phase, 60 Hertz service. The housing is properly grounded to the ground wire when supplied. Agitators are sold without plug. The plug cap is to be furnished and installed by the user. Attention should be paid to proper connection of the grounding wire to the grounding lug on the plug cap. The housing is also grounded to the tank when coupled and operating. These are portable mixers subject to use by a number of different people; therefore, **a check of grounding of the housing** to the grounding prong of the plug cap should be made **regularly**.

**Guth Agitators** are cantilevered out from the tank when in use. It is recommended that the agitator **ALWAYS** be supported. The user may provide their own support systems or, alternatively, support carriages may be purchased from Scott Laboratories. Agitators should run with minimal vibration. If vibration is noticed, the cause should be found and corrected immediately. Agitators with abnormal vibration should **never** be used before correcting the problem.

Due of the swing blade feature, when starting the mixer a certain amount of whip stress on the shaft occurs until the blades are fully open and running true. The opening at the tank must be sufficiently large so that the shaft cannot hit the surrounding tank opening during start up. The shaft rubbing against the tank opening during start up can cause a scoring of the shaft which in turn will cause a cut in the seal when that shaft is retracted. To relieve possibility of damage it is recommended that any **sharp edge** at the intersection of opening and tank wall be rounded smooth or **ground smooth**.

## **HELPFUL HINTS**

A short T between the tank valve and the agitator can be used for the rapid addition of fining materials in making blends.

Guth tank fitting should be made at the proper angle for each size tank to achieve maximum efficiency.

For maximum efficiency, blade should be checked regularly for proper blade pitch.

The easy way to add **SO<sub>2</sub>** to large tanks is through an **SO<sub>2</sub>** fitting on the Guth snout.

When installing the plug make sure that the motor is turning the direction shown on the motor. Turning the wrong direction will eventually cause the propeller to fall off!!