

# Instructions for Hand Held Mixing

Please read these Operating Instructions completely before starting operation.

Please observe and follow at all times Operator Warnings and other Notices.

## OPERATING INSTRUCTIONS



1. Whether mixing with an electric drill or pneumatic drive, such as the DM-45ADH or DM-55ADH hand held mixer drives, always use shoulder-wide footing and hold firmly onto handle grips. Do not space feet closely together (see picture), since this can cause a misstep or fall from poor balance. With electric drills, use "T-Grip" (grip on each side) not "D-Grip" (grip on one side) for best safety grip. Use a drill with minimum 700-800 watts and 2 or 3 geared speed reduction for the best power for mixing thick materials and drill operating life.
2. In closed (tight-head) drums, the DM-55SCC/SD2 bung mount can be used to help prevent fume release and liquid splash-out. In open or closed drums, start at a slow speed. With electric drills always use the slowest speed first. Raise shaft speed carefully to avoid splash-out! Move mixer around center and side of drum wall with caution, raise and lower to reach and stir up stratified or sedimented material. Avoid hitting the drum sidewalls to prevent drum wall or liner damage.
3. When done, slow shaft speed until rotation stops, then remove mixer from drum into the DM-55MRT, Mixer Rinse & Storage Tube (see below) or a container with appropriate solvent for cleaning the mixer. Improper cleaning or allowing material to dry on the mixer may prevent the swinging blades from operating properly. Clean the mixer thoroughly!



## OPERATOR WARNINGS! Please read and follow these notices

### WARNING NOTICES!

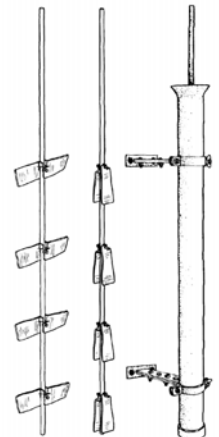
- **Operator Safety** - It is dangerous to operate a mixer outside the drum. Spinning blades could catch and rip or tear clothing or hair or otherwise injure, maim or kill an inattentive operator or damage equipment. Never use a "D-Grip" drill, which can cause wrist or arm strain or muscle injury.
- **Prevent Hazardous Splashout** - Carefully monitor the mixing process at all times, especially when mixing hazardous materials or any liquids in open head drums (drums without a lid) or tanks. Excessive shaft speed can cause liquids to project out of the mixing container onto the operator or into the surrounding site causing operator pain, injury or death or site damage or pollution.
- **Mixing Flammable Liquids** - NEVER operate a drum mixer with an non-explosion-proof electric or pneumatic device when mixing flammable or volatile liquids. Only use approved explosion proof electrical or pneumatic drives for flammable mixing operations. **Please consult a Safety Engineer for appropriate mixing operation advise before mixing any flammable liquids.**

### IMPORTANT NOTICES

- **Prevent Internal Drum Wall Damage** - Without careful control a hand mixer can roam into the drum side wall. Lined drums are subject to scratching or perforation. Prevent material contamination or drum wall damage by carefully controlling the mixer at all times.
- **For Best Mixing Quality Control**  
Request DRUM-MATES® TQMixing Guidelines™ for details on how to use the best mixing procedure and batch mixing time for most liquid materials. Fax: 609-261-1033 or Email: drummates@aol.com for your FREE COPY.

### GENERAL NOTICES

- **Mixing Oil Based Liquids**  
Use the economical, high efficiency DM-55ZPM zinc plated 55 gallon drum mixer for blending oil based liquids and for the best mixer cleaning, use suitable solvents in the DM-55MRT Mixer Rinse & Storage Tube (see picture).
- **Responsibility For Appropriate Equipment Use**  
The end user is solely responsible for the results of uncontrolled or inappropriate use of this mixing equipment and is liable for any resulting injury or damage that may occur from improper use.



DM-55MRT Rinse Tube

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