



MIXER OPERATIONAL SAFETY

MYERS MIXERS is the leader in mixing and dispersing equipment.

Your satisfaction and safety are our top priorities.

The purpose of the following information is to improve your knowledge of a safe operation.

SAFETY WARNING

Improper use of machinery can result in:

SERIOUS INJURY
DISMEMBERMENT
DEATH

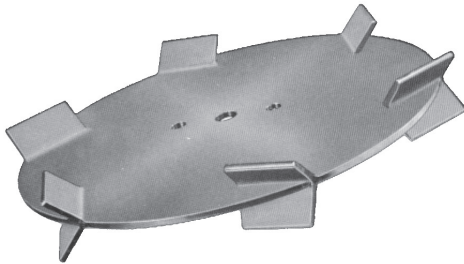
Always follow all safety protocols

3 STEPS FOR SAFE OPERATION

1. Prepare yourself for safety
2. Prepare the machine for safety
3. Operate the machine safely

DOs AND DON'Ts: ATTIRE

- **DO** wear snug sleeveless clothing. Sticky shafts/blades can grab even tight sleeves, and pull you into the rapidly rotating blades.
- **DON'T** work near or in the machine with sleeves, loose clothing, neck ties, or jewelry.

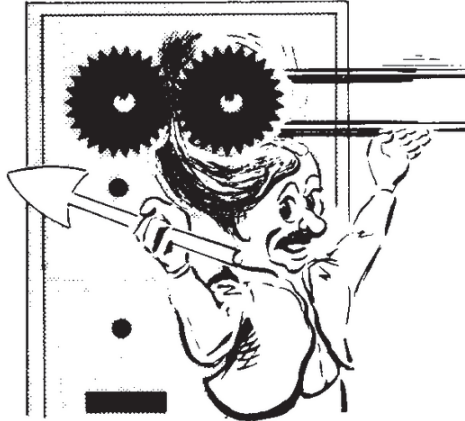


**Watch your fingers
I BITE**



DOS AND DON'Ts: ATTIRE

- **DO** keep your hair covered with a tight fitting hat, cap, or net. With long, loose hair, you can be scalped or pulled into the blades.
- **DON'T** work near or in the machine with uncovered long hair.



DOs AND DON'Ts: ATTIRE

- **DO** wear proper breathing apparatuses when working on, in or around tanks with toxic fumes. Test atmosphere before entering tank.

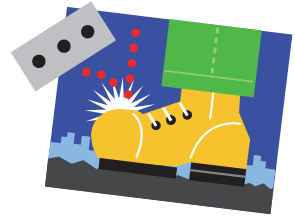


- **DON'T** breathe air in tanks.



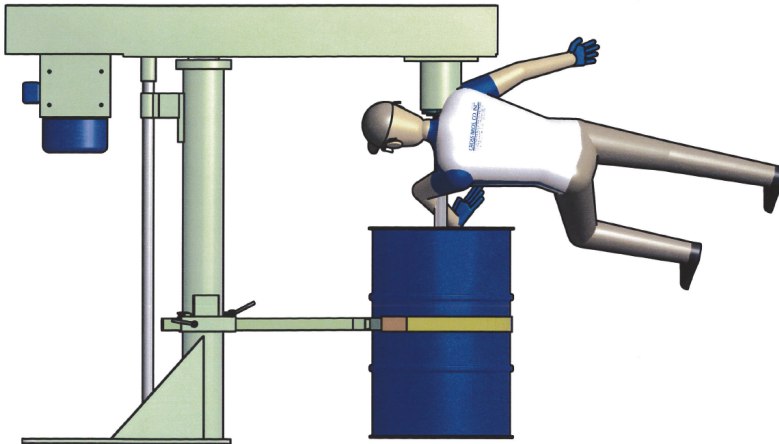
DOs AND DON'Ts: ATTIRE

- **DO** wear approved safety glasses. Debris flying off moving parts can cause eye injury.
- **DON'T** work on or around machine without proper safety gear.



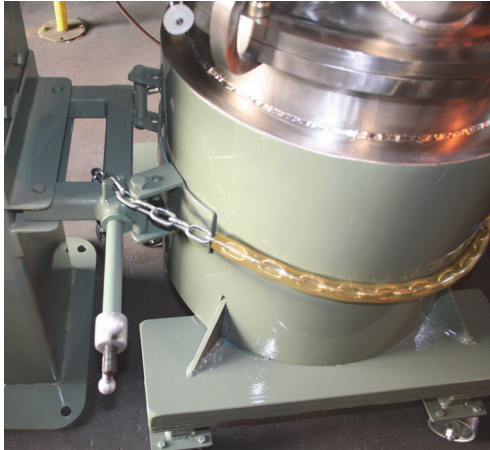
DOS AND DON'TS: ATTIRE

- **DO** work bare-handed. Gloves can more easily be grabbed by the shaft and pull you in. This holds especially true for rubber and latex gloves.
- **DON'T** wear gloves near the rotating shaft.



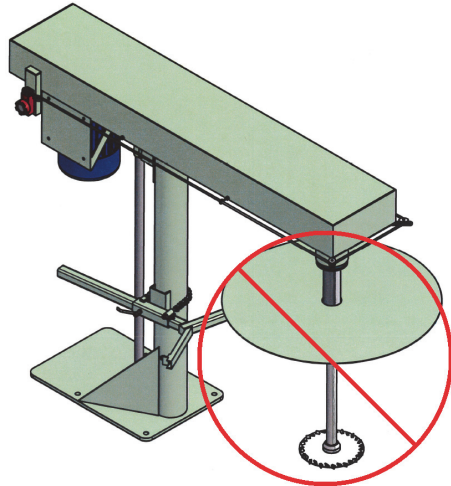
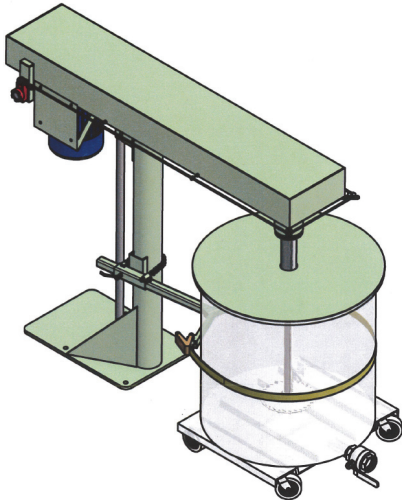
DOS AND DON'Ts: SAFETY CHECK

- ***DO*** lock guide bar and tank holder. Starting torque could swing blade into side of tub.
- ***DON'T*** start the machine before locking rotating guide bar and fastening tub.



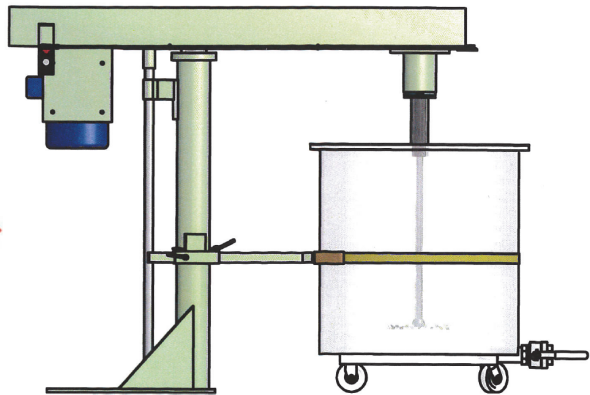
DOS AND DON'TS: SAFETY CHECK

- **DO** operate machine only in a tank so that you are always protected from rotating impellers.
- **DON'T** run the machine without a tank around the impellers.



DOS AND DON'TS: SAFETY CHECK

- **DO** see that impeller does not exceed $\frac{1}{3}$ the diameter of the tank, and that the tank is high enough so you can't fall in.
- **DON'T** operate mixer in a tank that is too small or get too close to moving shaft. Only use mixer sized for tank. Using oversized mixer in small tank can result in injury or death.



DOS AND DON'Ts: SAFETY CHECK

- **DO** check oil level. Air alone may blow piston out of cylinder when raising, or allow header to drop suddenly when lowering. Keep cylinder and guide bar clean and lubricated.
- **DON'T** operate the machine without sufficient oil in the hydraulic lift system, or if cylinder or guide bar causes machine to stick or jerk.



DOS AND DON'Ts: SAFETY CHECK

- **DO** locate and lock power out to prevent accidental starting and possible injury.
- **DON'T** repair or replace parts without locking power out. Check on/off switch after locking power out.



DOS AND DON'Ts: SAFETY CHECK

- **DO** check carefully. Tools or bolts left on moving parts can fly off and cause serious injury.
- **DON'T** leave tools or bolts in header or other moving parts areas before replacing guards and turning on machine.

SAFETY FIRST

**CHECK FOR TOOLS
BEFORE STARTING
MACHINE**

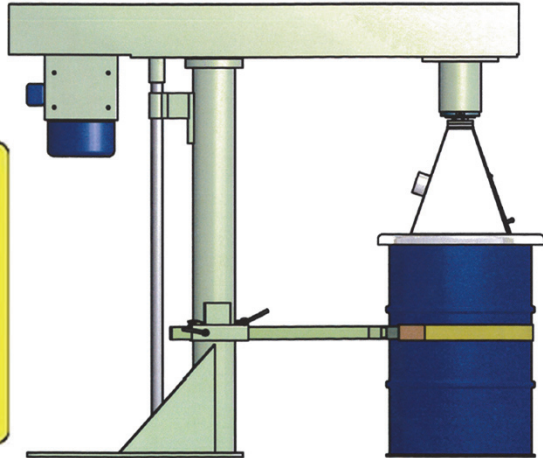


CAUTION

**DO NOT OPERATE
WITHOUT GUARDS**

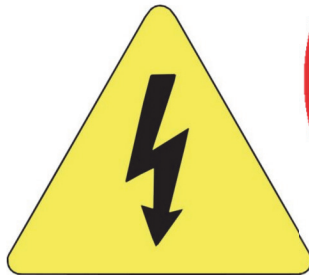
DOs AND DON'Ts: SAFE OPERATION

- **DO** charge the batch through a loading grate so bags or plastic liners can't wrap on shafts and pull you in.
- **DON'T** empty solids from bags or barrels directly into open tank.



DOs AND DON'Ts: SAFE OPERATION

- **DO** use a metallic mixing vessel, such as heavy gauge steel, which can be electrically grounded.
- **DON'T** use a cardboard or plastic drum for mixing. The impeller can cut through cardboard and plastic, and these materials do not conduct electricity, and therefore cannot be grounded.



DOs AND DON'Ts: SAFE OPERATION

- **DO** turn machine off, waiting for all motion to stop, before scraping or cleaning tank, or taking samples. Even slow moving impellers are dangerous.
- **DON'T** reach into mixing tank while blades or shafts are moving.



DOs AND DON'Ts: SAFE OPERATION

- **DO** keep away from moving shafts, for it can easily grab you or something you are holding, wrapping you around shaft and seriously injuring you.
- **DON'T** touch moving shafts with your hands, bags, rags, spatulas, scrapers, or anything else.



DOS AND DON'Ts: SAFE OPERATION

- **DO** keep hands on controls at all times while raising or lowering. Areas of great danger are on hoist column and guide bar, as they can crush your hands. When mounted lids or sweeping blades are lowered, they can crush your hands if on edge of tank.
- **DON'T** stand under, lean against or touch machine while it is being raised or lowered. Be sure no one else is under machine.



DOS AND DON'Ts: SAFE OPERATION

- **DO** set collar on guide bar so machine can't come down and crush you. If hydraulic system is being worked on, also block under machine because now set collar alone is not a sufficient safeguard.
- **DON'T** work under machine in elevated position without safeguards, such as locking collars and/or safety pins.



DOS AND DON'Ts: SAFE OPERATION

- **DO** turn off mixer or disperser, waiting for all motion to stop, before removing items. Remember, any moving part is a hazard.
- **DON'T** try to pull out something caught in the machine while it is running.



DOS AND DON'Ts: SAFE OPERATION

- **DO** use tools cautiously, especially around fumes. A spark can cause a fire or explosion.
- **DON'T** cause sparks from tools.



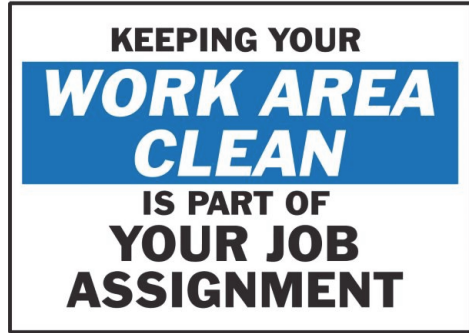
DOS AND DON'Ts: SAFE OPERATION

- **DO** watch out for pinched fingers and hands, as explained in the maintenance manual.
- **DON'T** change or adjust belts without reading and following instructions in maintenance manual.



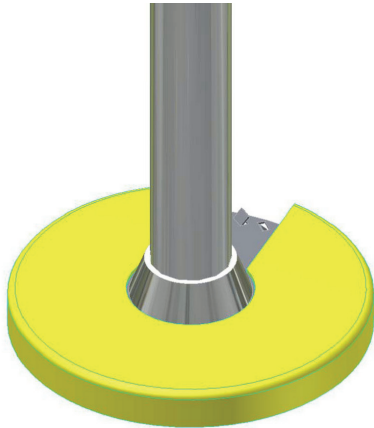
DOs AND DON'Ts: SAFE OPERATION

- **DO** keep everything clean, and there will be less chance of tripping or slipping into a machine.
- **DON'T** let machine or work area become dirty or clogged.



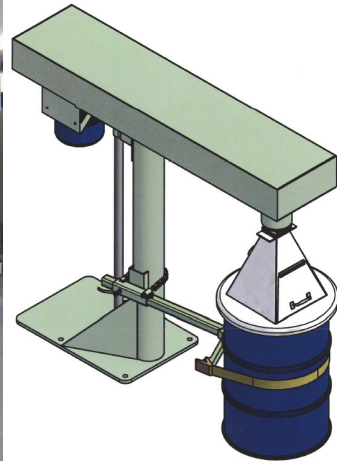
DOS AND DON'TS: SAFE OPERATION

- **DO** cover and protect blade when not in operation.
- **DO NOT** leave blades exposed when not in operation, as they become sharp over time.



DOs AND DON'Ts: SAFE OPERATION

DO NOT operate machine if any guards or safety devices provided with the machine are not in place and operating.



CONCLUSION

Safety procedures in this presentation have been found helpful by current **MYERS** customers. No claim has been made that these safety instructions are complete or comply with state or federal safety regulations. If you have any questions on the operation of **MYERS** equipment, consult with your supervisor before operating these machines or using the procedures listed in this presentation.

Be sure to clear these safety rules with your Plant Manager; they may have supplemental instructions.

Save this manual. Advise any new employees to read it and follow safety practices.

For additional information please contact

MYERS MIXERS, LLC.

8376 Salt Lake Ave.

Bell, CA 90201

TEL: (323) 560-4723

FAX: (323) 771-7789

myersmixers.com