

Drum Mixer



Figure 1 : Drum mixer (ATEX Explosion Proof type) with dedicated wall-mounted lifting system.



Figure 2 : Drum mixer (non-ATEX) with galvanized frame support integrated with forklift channels.

In chemical industries, the chemical solutions are commonly stored in the form of drum container and kept in a warehouse for storage. Depending on the scale of mixing, the batches produced are very large and thus the drum containers are kept for a long period of time, up to months until it is distributed to customers. Thus, some sediments will start to form and drop to container bottom or the solvents will start to separate. **Multimix® drum mixer** also known as drum agitator has four fan-shaped folding impellers and when in rotary motion, creates a gentle vortex to agitate the fluids in drum container and thus prevent sedimentation at the bottom.

Main Advantages

- User-friendly (just plug and play)
- Even mixing of liquids within seconds
- Compatible with all standard plastic drum container (220L) as well as those with small hole opening in steel drum
- Transportable with forklift / dedicated lifting system
- Safe design for operator with safety clamps
- Flexibility of using a single mixer for multiple drums

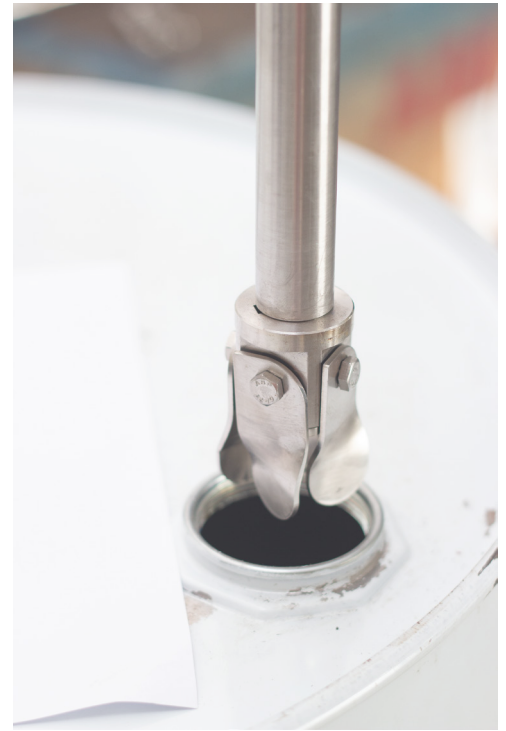
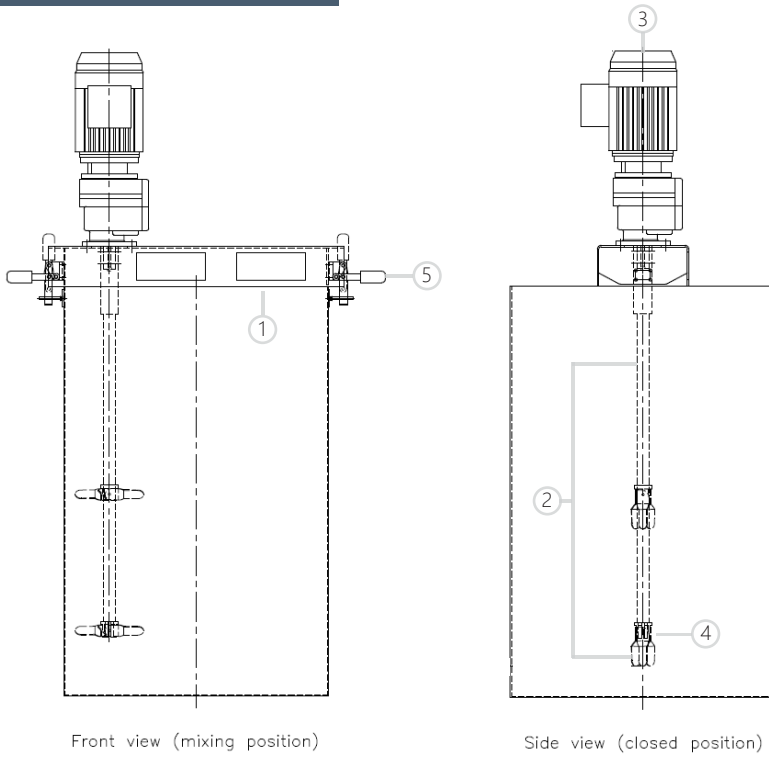


Figure 3: "Collapsible" folding impellers for entry to all standard drum containers.

1. Ergonomically designed

The base is fitted with dedicated forklift channels enabling it to be transported in and out drum containers via forklift.

2. Safe, durable and long-lasting

All wetted parts are in grade 316 stainless steel (GMP compliant) or SS304.

3. User-friendly (Plug and play)

Once the mixer is secured on top of drum container, just press START button and the mixer will do the mixing.

4. Durable mixing even for long hours

The collapsible impellers are designed for entry of special drums with small hole opening. When the impellers are in rotary motion, they open up to create a gentle vortex to agitate the fluids in drum container thereby preventing sedimentation at the bottom. A secondary (as shown in diagram above) / triple stage of impellers is also possible upon request.

5. Safe design for operator

The machine base is fitted with ON/OFF starter and clamping system to secure the mixer on top of the drum container during mixing.

Drum Mixer

Power supply	Three phase, 380V/415V, 50/60Hz
Mixing capacity	200 Litres as per standard drum
Speed	200 rpm
Impeller design	folding ribbon impeller
Safety features	Clamp, ON/OFF starter (optional)
Wetted parts material	Food and medical grade stainless steel 316L / SS304
Machine base	SS304/Galvanized frame support with forklift channels

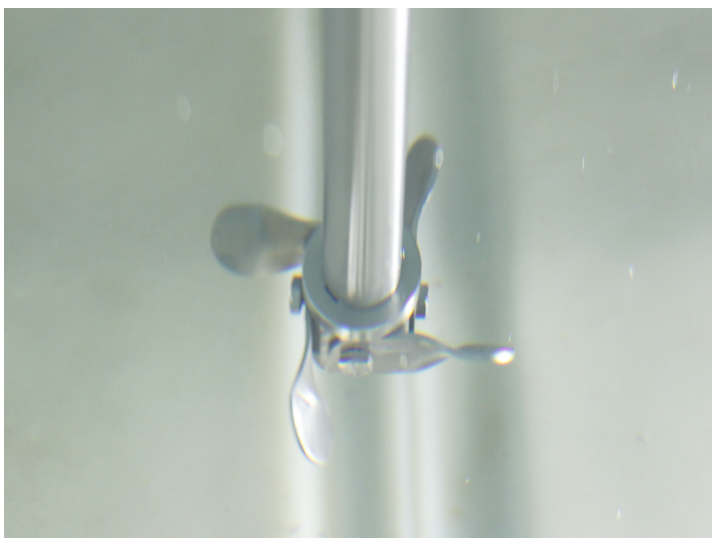


Figure 4: When impellers are in rotary motion.

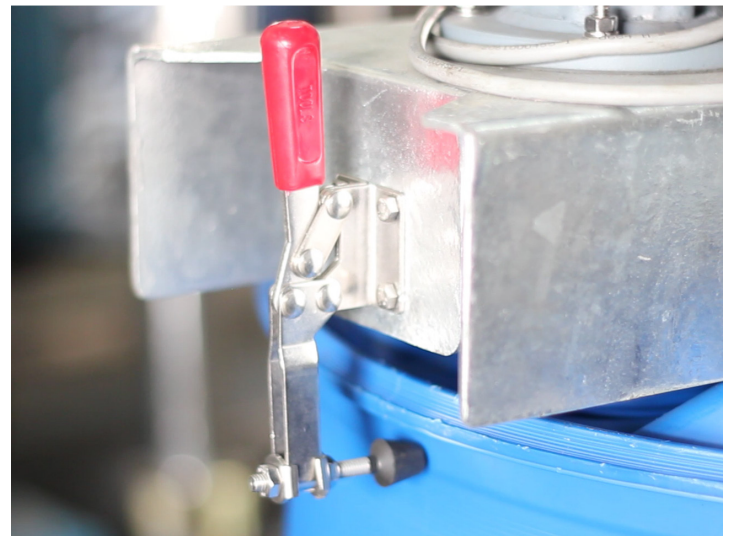


Figure 5: Safety mechanism with clamping and limit switches.