US Mixers unique range of Tote Tank / IBC mixers and agitators designed for use on Industry standard Tote Tanks / IBC’s with a 6” screw cap, the E-400 folding impeller has been designed to fit through a 6” opening to quickly re-mix the Tote Tank / IBC’s contents when settled out during transport or storage.

“Using the Tote Tank / IBC as a mixing vessel ensures consistent product quality and offers significant savings on transfer and cleaning time”

Applications
A wide range of products, supplied in IBC’s / Tote Tanks needs to be mixed before use to achieve optimum performance and consistent quality including:

- Chemical Industries
- Slurries
- Food & Beverage
- Water Treatment Chemicals
- Dye stuff & pigments
- Print and Varnish
- Cosmetics Industry
- Flocculants

Technical specification
Electric mixers are supplied complete with DOL starter, safety interlock switch, appliance plug and are factory wired and tested ready for use.

Air motor drive mixers are supplied with a flow control valve to regulate the speed and require a clean lubricated air supply. Standard electric and air driven Tote Tank / IBC mixers are designed for use indoors in a safe area.

Air & Electric Explosion Proof mixers are available, details available upon request.

Mixer Mounting
Mounting for the Tote Tank / IBC mixer drive is on a lightweight stainless steel bridge for ease of handling which mounts directly onto the Tote Tank / IBC and is held in place with quick action toggle clamps.

Mixer Bridge
All bridges are provided with a lifting strap with an eye bolt for easy lifting with a hoist. Mixer Bridge with fork lift frame also available.
Introducing powders or liquids
Mixer bridges are available which include a Hopper for introducing powders or two 1" inlet connections for introducing liquid into the Tote Tank / IBC with the mixer in position, both options are available on the same mixer bridge.

Electric Motors
Electric drives for use in a safe area are supplied factory wired & tested ready for use and include a DOL starter with overload protection, safety switch and appliance inlet plug. Standard motors are fixed speed. Option - Integral Electronic Variable Speed.

Standard voltage and frequency
208/230/460V Three phase 60 Hz
240V Single phase 60Hz
120V Single phase 60Hz

Safety - a safety switch wired to the motor control circuit prevents the mixer from operating when not mounted on a Tote Tank / IBC.

Air motor
Pneumatic motors require a clean dry lubricated air supply and are supplied with a flow control valve to regulate the motor speed and an exhaust muffler. Estimated air consumption graphs and operating pressures for each model can be found in the Air drive IBC mixer Data sheet

Gearbox
Standard inline helical gearboxes are robust, quiet and efficient in operation factory filled with FDA class H1 food grade synthetic lubricant and sealed for life.
Mixing Technology

US Mixers unique E-400 folding impellers are supplied in several diameters and impeller configurations to facilitate effective mixing for a wide range of products and process requirements.

Dual E-400 folding impellers can be used for viscous materials. In addition a fixed blade impeller can be positioned close to the bottom of the Tote Tank / IBC for mixing at low liquid levels.

Shaft and Impellers
Wetted parts are manufactured in 316 stainless steel, alternative materials are available for more corrosive applications. HBC- High speed (Direct Drive) mixers are fitted with fixed blade E-300 impellers. LBC- Low speed (Gear Drive) mixers are supplied with E-400 folding impellers.
Containers
US Mixers Tote Tank / IBC mixers are designed for use on Industry standard 275 / 330 gal plastic Tote Tanks / IBC’s with metal outer frame and 6” screwed cap also referred to as Tote tanks, and are suitable for most container types.

Mixer Selection
The following tables provide a general selection guide application for products.

Our application engineers will be pleased to advise the most suitable mixer for your application

<table>
<thead>
<tr>
<th>Mild to medium agitation – 275 gallon Tank</th>
<th>Vigorous agitation – 275 gallon Tank</th>
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</thead>
<tbody>
<tr>
<td><strong>Viscosity cP</strong></td>
<td><strong>Mixer Model</strong></td>
</tr>
<tr>
<td>1.0</td>
<td>HBC-050</td>
</tr>
<tr>
<td>100</td>
<td></td>
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<tr>
<td>250</td>
<td>LBC-050</td>
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<td>LBC-100</td>
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<tr>
<td>5000</td>
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<tr>
<td>15000</td>
<td>LBC-200</td>
</tr>
</tbody>
</table>

Enquiries / Ordering
To enable our application engineers to assist you, please provide a brief description of the mixer duty together with the product SG and viscosity. Also a description of the product, and if an Electric or Air drive is required.

Please advise if the mixer will be used in a safe or hazardous zone.

Supplied by

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