

# IBC Mixers

For use on plastic Intermediate Bulk Containers (IBC's)

Euromixers unique range of IBC mixers / agitators designed for use on Industry standard Intermediate Bulk Containers (IBC) with a 150mm screw cap, the E-400 folding impeller has been designed to fits through a 150mm opening to quickly re-mix the IBC's contents when settled out during transport or storage.

*“using the IBC as a mixing vessel ensures consistent product quality and offers significant savings on transfer and cleaning time”*

## Applications

A wide range 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 IBC mixers are designed for use indoors in a safe area.

Air & Electric ATEX certified mixers for use in zoned areas are available, details on request.

### Mixer Mounting

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



Electric Drive with **Fork Lift Frame**



Air Drive with **Standard Frame**

### Mixer bridge - options

Lifting – Eye bolt or fork lift, a lifting strap and eye bolt is provided for use with a hoist or a mixer bridge with a Fork lift module for lifting the IBC mixer with a fork lift truck is available.

### Introducing powders or liquids

Mixer bridges are available which include a Hopper for introducing powders or two 1" BSP inlet connections for introducing liquid into the IBC with the mixer in position, both options are available on the same mixer bridge



Powder Hopper

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### 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 16 amp appliance inlet plug. Standard motors are fixed speed. Option - Integral Electronic Variable Speed

### Standard voltage and frequency

400v 3ph 50Hz

240v 1ph 50Hz

110v 1ph 50Hz

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



Electric Motor

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### 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.



Air Motor

## Mixing Technology

Euromixers unique E-400 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 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) IBC mixers are fitted with fixed blade E-300 impellers.

LBC- Low speed (Geardrive) IBC mixers are supplied with E-400 folding impellers.



E-400 Folding impeller closed



E-400 Folding impeller operating

## Containers

Euromixers IBC mixers are designed for use on Industry standard 1000 / 800 litre plastic Intermediate Bulk Containers (IBC's) with metal outer frame and 150mm screwed cap also referred to as Tote tanks, and are suitable for most container types including Schutz Ecobulk, Sotralentz, Werts, Van Leer

## Mixer selection

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

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

### Mild to medium agitation - 1000 litre IBC

Viscosity cP	Mixer Model	Drive Type
1.0 100	HBC-37	Direct
250 500 1000	LBC-37	Gear
2500 5000	LBC-75	Gear
15000	LBC-150	Gear

### Vigorous agitation - 1000 litre IBC

Viscosity cP	Mixer Model	Drive Type
1.0 100 250	LBC-37	Gear
500 1000	LBC-75	Gear
2500 5000	LBC-150	Gear

## Enquiries / Ordering

To enable our application engineers to help please provide a brief description of the mixer duty together with the product SG and viscosity or 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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