



IBC MIXERS

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For plastic Intermediate Bulk Containers (IBC's)

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

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

Applications

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

- Food & Beverage
- Dye stuff & pigments
- Paint and Varnish
- Cosmetics Industry
- Chemical Industries
- Slurries
- Water treatment chemicals & flocculants



TECHNICAL SPECIFICATION

CE marking - standard electric and air drive mixers are fully CE compliant and designed for use indoors in a safe area. ATEX certified mixers for use in a zoned area are available, details on request.

Mixer Mounting - IBC mixers are provided with a lightweight stainless steel bridge which mounts directly onto the IBC and is held securely in place with quick action toggle clamps.

Lifting – Standard lifting strap and eye bolt is provided for lifting with a hoist, an optional Fork Lift module is available welded onto the mixer bridge for lifting with a fork lift truck.

Electric mixers – are supplied with DOL starter with overload protection, safety interlock switch, 16Amp IP44 appliance inlet plug and are factory wired and tested ready for use.

Air drive mixers - are supplied with a flow control valve (variable speed) and require a clean lubricated air supply.



Mixer Drive – The In-line helical gearbox is robust & quiet in operation & factory filled with FDA class H1 food grade synthetic lubricant and sealed for life

Electric motors – Standard electric motors are fixed speed.
Optional ESV model with Integral Electronic Variable speed.

Standard voltages & frequency
400v 3ph 50hz
240v 1ph 50hz
110v 1ph 50hz

Electric drives for use in a safe area are supplied with a DOL starter with overload protection, safety switch & 16 Amp IP44 appliance inlet plug and are factory wired and tested ready for use.

Safety – a safety switch wired to the low voltage 24v motor control circuit prevents the mixer from operating when not securely mounted on an IBC.



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 pressure can be found on the Air drive IBC mixer Data sheet.
ATEX – certified mixers are available for hazardous areas.

Mixer bridge options – Mixer bridges are available which include a Powder Hopper for adding powder or liquids into the IBC with the mixer in position or two 1" BSP inlet connections for introducing liquids – both options are also available together.

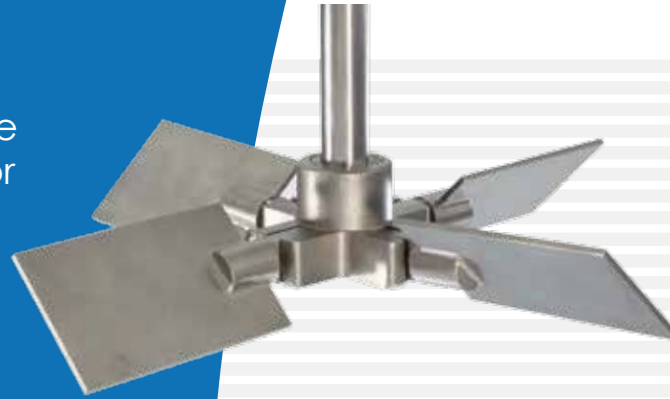
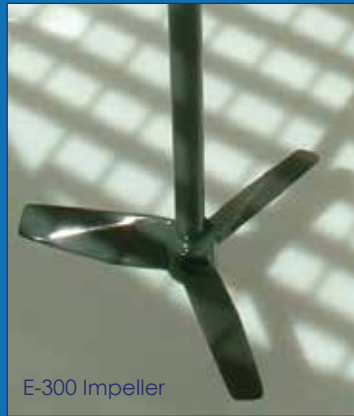


Mixing Technology

Euromixers unique E-400 folding impellers are manufactured in a range of sizes to facilitate effective mixing for a wide range of products, Dual or multiple impellers can be used for viscous materials, in addition fixed blade “kicker” impellers can be positioned close to the bottom of the IBC for mixing at low levels.

Shaft & Impellers –

wetted parts are manufactured from 316 stainless steel alternative plastic materials are available for corrosive products. HBC- High speed Direct drive IBC mixers are supplied with E-300 fixed impellers. LBC – Low speed Gear drive IBC mixers are supplied with E-400 folding impellers.



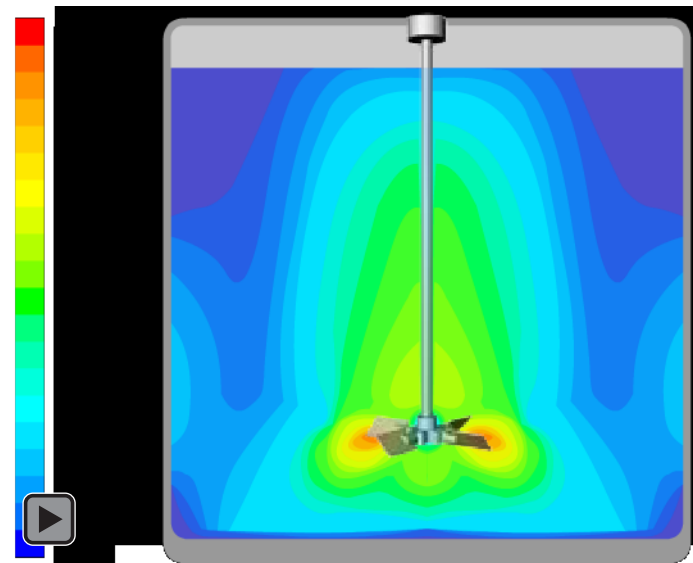
E-400 Folding Impeller Operating



E-400 Folding Impeller Closed



E-400 Folding Impeller with Kicker



CFD Analysis of E-400 Impeller

Mixer Sizing & Selection

Containers - Euromixers IBC mixers / agitators are designed for use with Industry standard 1000 / 800 litre Intermediate Bulk Containers (IBC's) with 150mm screw caps also referred to as Tote tanks and are suitable for most container types including Schutz Ecobulk, Sotralentz, Van Leer.

The following table is a general guide, our application engineers will be pleased to help and advise on the most suitable mixer for your application.

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

1000 Litre IBC

Enquiries & Ordering

Please mention the mixing duty together with the product SG and viscosity or a description of the product to enable our application engineers to confirm or propose a suitable IBC mixer for your application.

Please advise if the mixer is used in a safe or Hazardous / classified zone.

Check List / Options

Electric or air drive

Lifting eye bolt or fork lift module



EUROMIXERS
MIXING TECHNOLOGY



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