PERFORMANCE. DELIVERED.

DRIVING INNOVATION IN IBC MIXING PROCESSES
“The ‘all in one’ mixer for fast, efficient and effective blending whilst achieving flexibility and efficiency in mixing processes.”
Welcome to our very first edition of the mixPRO magazine brought to you from Mixquip at Teralba. We look forward to an exciting journey ahead in providing these updates throughout the year.

In this issue we bring to you the latest innovation in the mixing process of IBC and pallet tank mixers. We are all familiar with the Australian made Mixquip Series 200 IBC Bridge Mounted Mixer for Totes and IBCs, and after extensive research and development Mixquip have redesigned the Series 200 to incorporate next generation mixing technology through the use of the unique Toro-Jet Impeller.

For more information on our mixer range and mixing solutions visit the Mixquip site at www.mixquip.com, purchase online or speak to an engineer about our extensive knowledge and applications. Call us today on +61 (02) 4629 3050 for your mixing needs.

PERFORMANCE. DELIVERED.
Designed to suit most IBC containers with its heavy-duty form and robust construction, the Series 200 Rummager is ideal for demanding mixer applications. Mixquip Series 200 Bridge Mounted IBC Agitators are ideal for a variety of applications such as blending, dispersing and suspending viscous liquids and high solid slurries, or wetting and dissolving powders.

- **BLEND**
  Mixquip Series 200 ‘all in one’ can be used to blend most miscible liquids together within the IBC container. Some immiscible components can also be processed with the Series 200 system.

- **DISPERSE**
  Immiscible liquid droplets are dispersed throughout the IBC contents through the mixing action of the Mixquip Series 200.

- **SUSPEND**
  Fine solid particulates can be suspended within the IBC container, through the mixing action of the Mixquip Series 200 Toro-Jet impeller.
Mixquip has developed and is now launching the Toro-Jet impeller, an innovative approach to IBC mixing. The unique design of this impeller is suited to a wide range of viscosities. With a focus on technique rather than speed, the Toro-Jet ensure all processes and mixing requirements can be achieved within the one impeller, eliminating the needs for different mixing processes for different requirements or agitation of products. Flexibility is achieved through this innovative design, reducing costs with guaranteed high-quality, consistent results.

**SUITED FOR VARYING VISCOSITIES**

Mixquip has developed the Toro-Jet, suited for a wide range of viscosities which greatly reduces downtime and in turn increases efficiency. This unique feature is due to the geometrical shape of the mixing elements.

**HIGH EFFICIENCY MIXING ACTION**

Optimum mixing can be achieved in a very short time, even at the lowest circumferential speeds, strength lying in the special geometry of the conical mixing elements, with skillfully engineered spatial and angular relationships.

**LOW POWER CONSUMPTION**

Short mixing times and low motor power requirements for maximum cost-effectiveness. Mixquip Toro-Jet impeller design has a low power number than other impeller systems resulting in more liquid movement with less energy consumed.
MIXING PROCESS

The Mixquip Series 200 is fitted through the top of the IBC and secured to the frame. This can be done by an easy forklift install. The Toro-Jet impeller has been specially designed to ensure ease of entry into the mixing vessel through it’s moveable arms.

Stage One

As the speed of the impeller increases, the propellor folds out creating an effective liquid movement around the container. Product is drawn down through the middle of the IBC or mixing vessel drawn into the torodial ring and dispersed to the outer mix zone.

Stage Two

Product accelerates through the rotating elements via the toroidal flow pattern at the mix-head. This torodial flow movement creates both an axial and radial flow through the impeller as liquid movement and square sides of the IBC container creates needed turbulence and thorough mixing.

Stage Three

UNSURPASSED MIXING VERSATILITY

Blend, disperse, suspend. The Toro-Jet impeller system can cover a wide range of mixing applications without the need for fitting different impellers.

MINIMAL AERATION OF PRODUCTS

The unique design of the Toro-Jet impeller means that it can be located close to the base of the mixing container. This ensures that the powerful axial suction created by the impeller doesn’t draw air into any vortex created by the liquid movement.

AXIAL & RADIAL FLOW

The torodial flow at the mix head forces product through the mixing elements. The resultant axial and radial flow increases the efficiency of mixing times and consistency of product.
Rummager is the brand for Mixquip’s IBC mixers - Series 200 and Series 210. The Mixquip ‘Rummager’ brand is centred around the synonyms of ‘rummage’ such as disturb, disrupt, turn upside down and mix up. The Mixquip portable series and in particular the IBC and pallet tank mixing systems are engineered to do just that. Blending, agitating and suspending which is why we refer to these products as Rummagers.

New product brochures!
Speak to our team on 02 4629 3050 or email us to receive a copy.
Pallet Tanks have revolutionised bulk liquid transportation and storage, they are economical, safe, easily moved with the ability to mix products in the box. Air-driven, lightweight and easy to install, the Series 210 Rummager is effective in blending low viscosity fluids and will lift sediment off the base of the mixing container and re-suspend or condition products for processing.

**AGITATE**
The Mixquip portable series is ideal for applications requiring agitation where liquid movement is increased to facilitate processes such as heat transfer/temperature control, filling and decanting operations.

**BLEND**
Mixquip Series 200 ‘all in one’ can be used to blend most miscible liquids together within the IBC container. Some immiscible components can also be processed with the Series 200 system.

**SUSPEND**
Fine solid particulates can be suspended within the IBC container, through the mixing action of the Mixquip Series 200 Toro-Jet impeller.

Visit www.mixquip.com or call 1300 20 70 20
NEED
To suspend polymers and minimise shear.

INDUSTRY
Wastewater

SERVICES
• Consultation & Design
• Process Development & Engineering
• Series 200 IBC Bridge Mount
• ToroJet Style Impeller

PepsiCo is an American multinational food, snack and beverage corporation based in Harrison, New York. With bases worldwide, Mixquip worked with Pepsi Brisbane in the upgrade of their wastewater facility which included a polymer addition.

Pepsi engineers had specific requirements for the IBC mixer to minimise shear on the polymers. Due to the environment there as a preference for an material such as polyethylene for the shaft and mixing impeller.

A slow speed Mixquip Series 200 with a Polyethylene Toro-Jet folding impeller and polyethylene shaft encapsulating the 316 stainless spline was best suited and selected by the client. Whilst the speed of this Australian designed & made mixer was geared to 70 RPM a VFD Variable Speed drive was incorporated to further fine tune the mixing intensity that can be achieved with Toro-Jet impellers.

The mixing package was carefully chosen through close consultation with the client to ensure we met their exact requirements. The customer is ecstatic and has experimented with the Mixquip Series 200 IBC Bridge Mount mixer so the polymers do not settle in the IBC but are gently stirred ensuring that the polymer is not damaged.
APPLICATIONS

It’s your process, and it matters.

For over 45 years Mixquip has been delivering sustainable solutions to over 8 industries, all of which require many different and varied applications to their mixing requirements. Mixquip has consistently provided innovative, cost-effective, and advanced products and system solutions for virtually any mixing process application.

At Mixquip we know your process matters, and that’s why we are dedicated to providing complete systems to meet your process needs. Backed by our group of engineers and after service team, we’re here to help you!

Which applications can Rummager Series 200 and Series 210 be used?

- **Food & Beverage**
  - Dairy
  - Sauces & Dressings
  - Meat & Poultry
  - Gums & Thickeners
  - Flavour Emulsions
  - Confectionary
  - Brewing & Distillery
  - Beverage

- **Paint & Coatings**
  - Ink Jet Coding & Marking Inks
  - Polymer & Pigment Dispersion
  - Paper Coatings
  - Automotive Polishes
  - Polishes

- **Pharmaceutical**
  - Creams & Ointments
  - Toothpaste
  - Tablet Coatings
  - Pharmaceutical Syrups
  - Shampoo & Conditioners
  - Antiperspirants & Deodorants
  - Cosmetics
  - Vaccines

- **Chemicals**
  - Pesticides
  - Drilling Fluids
  - Rubber Solutions
  - Specialty Chemicals

- **Oil & Lubricants**
  - Lube Oils
  - Edible Oils

- **Dairy**
  - Sauces & Dressings
  - Meat & Poultry
  - Gums & Thickeners
  - Flavour Emulsions
  - Confectionary
  - Brewing & Distillery
  - Beverage

- **Sauces & Dressings**
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- **Beverage**
  - Lube Oils
  - Edible Oils

- **Ink Jet Coding & Marking Inks**
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- **Pesticides**
  - Drilling Fluids
  - Rubber Solutions
  - Specialty Chemicals

The versatile design of the Rummager Series 200 and Rummager Series 210 allows for multiple use within the same container. This feature benefits for many applications providing a cost-effective and scalable design across many industries.

* this is not limited, contact a mixing specialist today to discuss your needs.

Visit www.mixquip.com or call 1300 20 70 20