

mete nova

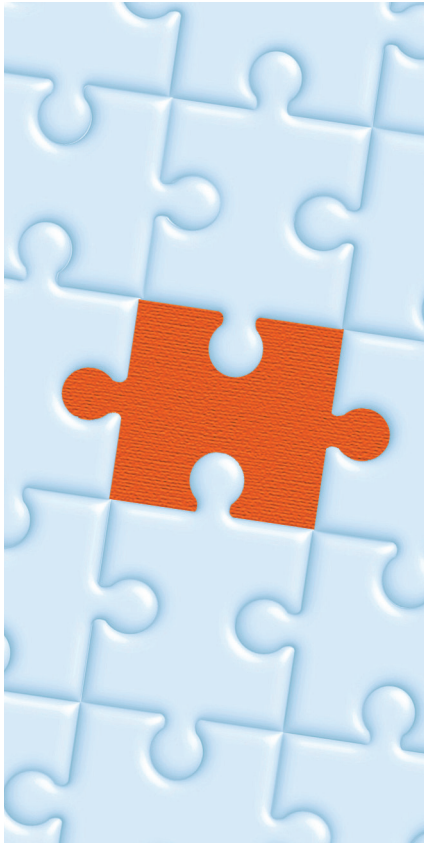
PURE INNOVATION

**Zero-g
Magnetic Mixer Technology**



Innovation

is a new way to accomplish positive result that is substantially different from how it was done before. The combination of understanding, excellent technical skills, and possessing the will and courage to think “**out-of-the-box**” is required to be a successful innovator.



Three decades ago we introduced the **Magnetically Coupled Mixing Technology** to the BioPharmaceutical industry. Focusing on the BioPharma industry, we realized that the existing technology adopted from other industries was insufficient for our market process needs. With **our innovations**, we managed to address the critical questions of **vessel integrity** and risk of **contamination** in a new and **revolutionary way**.

The success of this concept has made magnetically coupled mixing technology **the standard for BioPharma production today**.

Advancements in manufacturing techniques for both biotech and pharmaceutical products have been **dramatic** over the last 30 years.

Scientific **breakthroughs** in Biotech combined with great improvements in production efficiency have enabled cures for diseases that would have been fatal not long ago.

Astonishing improvements in production reliability and yield have also been accomplished.

Needless to say, the modern pharmaceutical plant of today is very different from a plant built 10 to 30 years ago. **Key components** such as **Mixers** need to address the **requirements of the modern BioPharma production**.

The current mixing technology on the market was designed and developed 10-30 years ago to meet the requirements at that time.

Metenova's mission

is to drive the technological **development** of our products to meet and surpass today's needs and the **requirements of the future** enabling our **customers** to achieve further **success**.

Mag mixing technology has evolved over the last three decades. We have learnt that the mixer is as an important component to the process as the ingredients are to the product. Our **knowledge base has increased** throughout the years based on experience, extensive empirical testing and computer modeling. To meet the needs of the future we have yet again had to think “**out-of-the-box**” and drive the development of **mixing technology to the next level**.



Detail view of Zero-g Mixer

Metenova now brings the most **revolutionary** patent pending mixing technology to our industry by introducing our **Zero-g Mixer** program that will meet and surpass **manufacturing needs well into the future.**

Magnetically coupled mixer

No mechanical seals or stuffing boxes
Minimized cross-contamination risk

Bottom mounted

Low level mixing
No head space needed
Service friendly

Robust design

Ensured production reliability

Aseptic by design

Optimized for Cleaning and Sterilization
In-Place CIP/SIP
Aseptic Gap-Free Bearing Design

Mixing performance

Mixing characteristics optimal for Bio and
Pharma applications

Service friendly bearing design

Minimizing downtime during maintenance

Floating Zero-g Technology

Reducing shear
Minimizing particle shedding

Already commissioned vessel can easily be upgraded

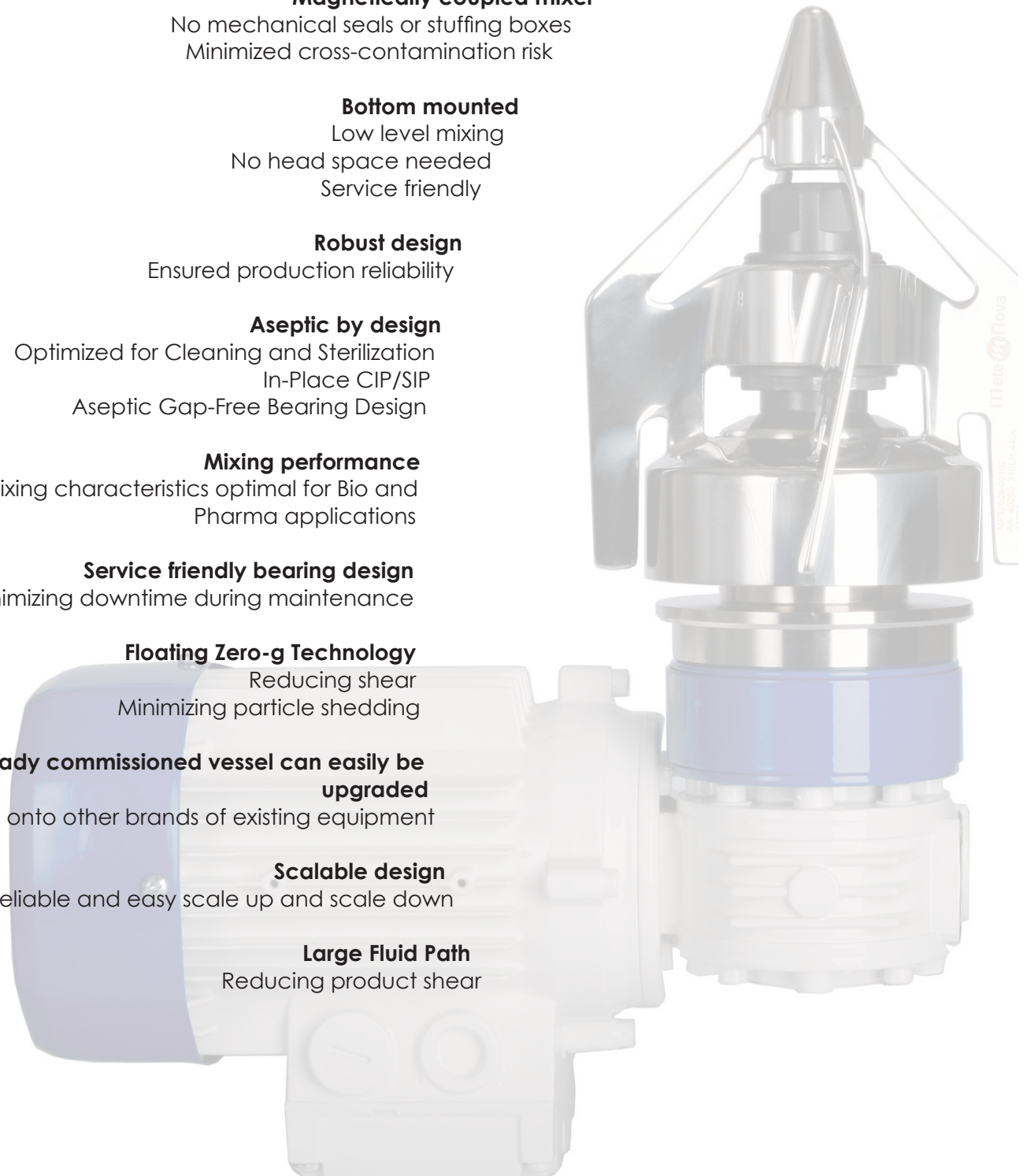
Fits onto other brands of existing equipment

Scalable design

Reliable and easy scale up and scale down

Large Fluid Path

Reducing product shear



revolutionary
innovation breakthroughs
dramatic advancement
“out-of-the-box”



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PATENT PENDING

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