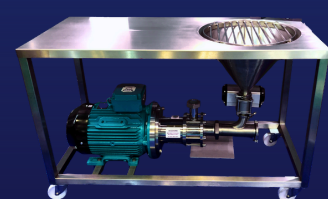


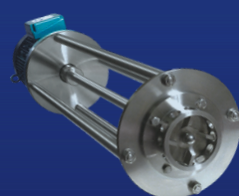
# INTEGRATED PROCESS MIXING SYSTEMS

AdPro Vacuum Processing Mixer  
50L to 6000L Capacity



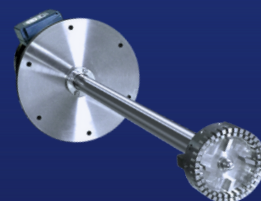
Powder / Liquid Mixers  
Up to 10,000Kg/Hr Capacity

## VESSEL MIXERS



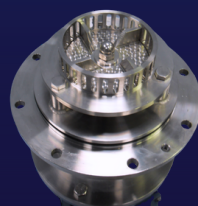
High Shear Batch Immersion Mixer  
5L to 12,000L

High Shear Sealed Bearing Mixer  
25L to 5000L



- Low shear
  - Hydrofoil
  - Axial flow
  - Propellor
  - Anchor
  - Co-axial
- Designed for specific process

Bottom Entry High Shear Batch Mixer  
Can be used with vessel agitator  
25L to 15,000L



Top & Bottom Entry Medium Shear Dispersion Mixer  
25L to 5000L



# IN-LINE MIXER DESIGN AND TECHNOLOGY



**AE Mixers Ltd**  
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# HIGH SHEAR INLINE MIXERS

The AE Mixers range of versatile, efficient, high shear in-line mixers are widely used in a range of industries. The intense mixing action of the inline mixer results in an improved product consistency with reduced process times compared with conventional low shear mixers.

A comprehensive range of precision machined interchangeable rotor stator work heads can easily be fitted, giving the machine flexibility to perform many essential processes.

The rotor stator work heads are hygienic, none bypassing and designed for aeration free, self pumping operation making them suitable for single pass or recirculation process systems.

KEY INDUSTRIES		PROCESSES	
 Pharmaceutical	 Food	 Dispersion	 Homogenisation
 Chemical Applications	 Paints, Inks, & Resins	 Emulsification	 Particle Size Reduction
 Cosmetics / Personnel Healthcare		 Blending	 Solubilisation
		 Solids Suspension	

## ADVANCED ULTRA HYGIENIC IN-LINE MIXER

Designed to EHEDG, FDA and cGMP guidelines the advanced UH inline mixer meets with the most stringent pharmaceutical, cosmetic and food industry standards.

The UH inline mixer combines the key features of the single stage inline mixer with ultra hygienic construction which does not require dismantling for cleaning. This results in a versatile, efficient high shear inline mixer which can be easily cleaned in place for rapid changeover between batches.

The UH inline mixer is ideal for use where cross contamination between batches is to be prevented. This not only applies to traditional hygienic applications but also in other industries such as colours and inks.



## ADPRO HIGH SHEAR IN-LINE MIXER

The AdPro is a two stage high shear inline mixer with a pre blending / dispersion head and a single stage high shear rotor stator.

It can be mounted as a tank bottom or an inline mixer and is ideal for the processing of larger agglomerates or feeding multiple liquids directly into the mixing chamber where they are pre dispersed prior to entering the high shear rotor stator.



## AEIL3S THREE STAGE MULTI SHEAR IN-LINE MIXER

FOR FLOW RATES OF 100 L/HR TO 40,000 L/HR

The Multishear is similar to the single stage high shear inline mixer, but is fitted with three sets of multi castellated heads.

The product passes through each stage in series resulting in an intense high shear mixing action suited to the production of sub micron emulsions and ultra fine particle size.

Four head types, course, medium, fine and super fine are available and any combination of these can be fitted giving the machine the versatility to process many types of products.

The machine can be used for single pass systems or can also be used in recirculation mode to produce an even finer particle size.



## AEILS SINGLE STAGE HIGH SHEAR INLINE MIXER

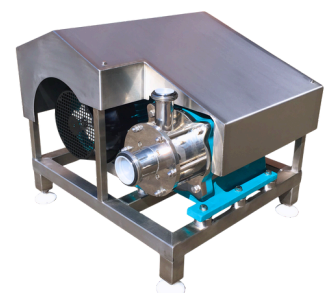
FOR FLOW RATES OF 100 L/HR TO 180,000 L/HR

### FEATURES:

- Intense mixing action
- Improved product consistency
- Reduced process times
- Flexible processing
- Interchangeable heads
- Self pumping
- Hygienic design
- No product bypassing
- Aeration free
- 316 stainless steel construction
- Low maintenance
- Suitable for CIP

### OPTIONAL FEATURES:

- Double seals for arduous duty
- Pre cutting head for fibrous materials
- Special materials of construction
- Stainless steel motors
- Suitable for SIP
- Easy split design



## ADBD BELT DRIVEN HIGH SHEAR IN-LINE MIXER

The ADDBE 20 belt driven high shear inline mixer has the same product chamber and work heads as the ADILS 10 but as this operates at a speed of 6000RPM, the flow rate, mixing intensity and shear rate are greatly increased resulting in faster processing times, reduced particle size and finer emulsions.



## EASY SPLIT & PRE CUTTER DESIGN OPTIONS

The easy split design option allows the slide mounted motor, complete with rotor and stator to be easily separated and withdrawn from the process chamber which is left permanently in position connected to the process pipe work. This allows easy access to the mixer for cleaning, inspection or for maintenance work.

The pre cutter option is used for pre-cutting of vegetable stalks, de agglomeration and additional pumping for more viscous products.