AMPCO APPLIED PRODUCTS

SHEAR-max

High Shear Inline Mixer

The ultimate in high shear mixing and dispersing, meeting the tight tolerances required in high shear applications while maintaining extremely efficient flow.

The curved wedge rotor and stator design of the SHEAR-max make it one of the most efficient and hygienic designs on the market.

Machined from 316L stainless steel bar stock this mixer is built to last. Wash-down and CIP capability with optional chemical duty designs offered. Available in 7 model sizes with single and dual stage workhead combinations to meet application demands.

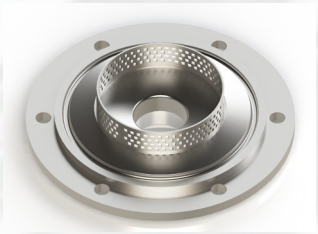
WORKHEAD OVERVIEW

SLOTTED WORKHEAD – *(Standard Option)*

- High flow and high shear rate
- Most robust workhead for large solids or abrasive applications
- Ideal workhead for dispersions requring high shear and disintegration of elastic and fibrous materials (polymers, and plant or animal tissue)
- This workhead is available with Standard Slots, Fine Slots or Knife Edge Slots.

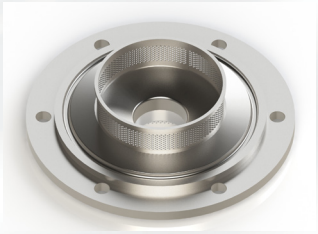
SQUARE SCREEN WORKHEAD – *(Ideal for milling and grinding small solid particles)*

- Creates the highest amount of mechanical shear for particle size reduction
- Throttling the discharge in certain applications can increase the particle size reduction per pass
- Great for certain emulsions



EMULSION WORKHEAD – *(Designed to emulsify immiscible liquids)*

- Relies on a high differential pressure and velocity across the screen to create high hydraulic shear and break down of liquid droplets
- Flow restriction is not recommended for this workhead
- Lowest mechanical shear, will not break down hard solids
- Workhead is available as standard emulsion or fine emulsion



GENERAL PURPOSE WORKHEAD – *(High flow medium shear)*

- Excellent for dissolving and dispersing powders in liquids
- Allows some larger solids to pass through for some product identity
- Ampco offers other lower cost solutions to perform the same duties as the General Purpose workhead.

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