



Ampco Shear Blender – the right mix

Mixing is becoming increasingly important in the widest variety of industrial processes. Today's products often comprise a multitude of ingredients such as stabilizers, thickeners, sugars or other additives, in powder or liquid form, which means there is a broad cross-section of texture and flow behavior to contend with.

Blending, suspending, dispersing, texturizing, emulsifying or reconstituting are just some of the processes involved in mixing. These can only be successfully achieved with selected tools and certain application knowledge.

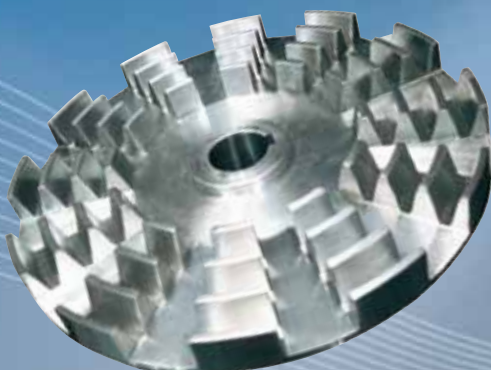
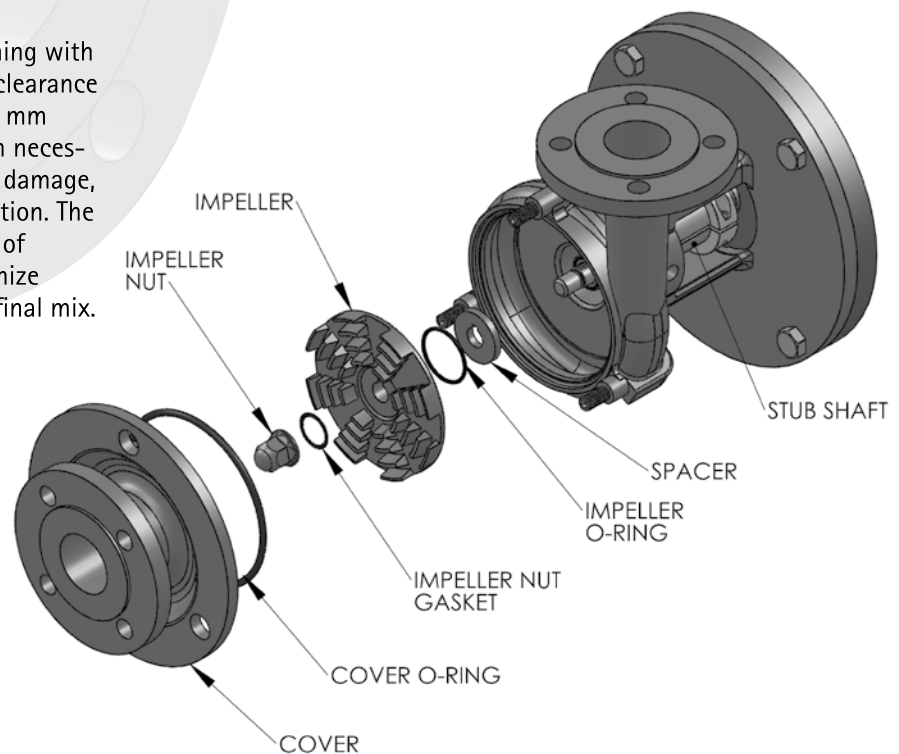
Ampco has developed a selection of shearing tools and

options to meet all market requirements at a competitive price. With time and energy in mind, it was important to strike a balance to achieve the right mixing action for each requirement (e.g. gentle or high-shear mixing or homogenizing) that would still be cost-effective and time-saving, yet gentle on the product.

To design these shear blenders, Ampco simply replaced the impeller, cover and, in some cases, the impeller nut in the well known LM/LF Centrifugal Pumps series. Therefore, the same wear parts are used, which means a reduction in spare parts stock.

Ampco Shear Blender SB – the adjustable multi-tasking unit

Media are different, so you cannot tackle everything with the same solution – you have to be flexible. The clearance of the Ampco SB can be adjusted from 0.3 to 1.2 mm (0.01" to 0.05") and, therefore, only the minimum necessary shear is applied to the product. This reduces damage, prevents overheating and lowers power consumption. The Ampco Shear Blender is perfect for inline mixing of premixed products and can also be used to minimize undissolved particles or to achieve the specified final mix.



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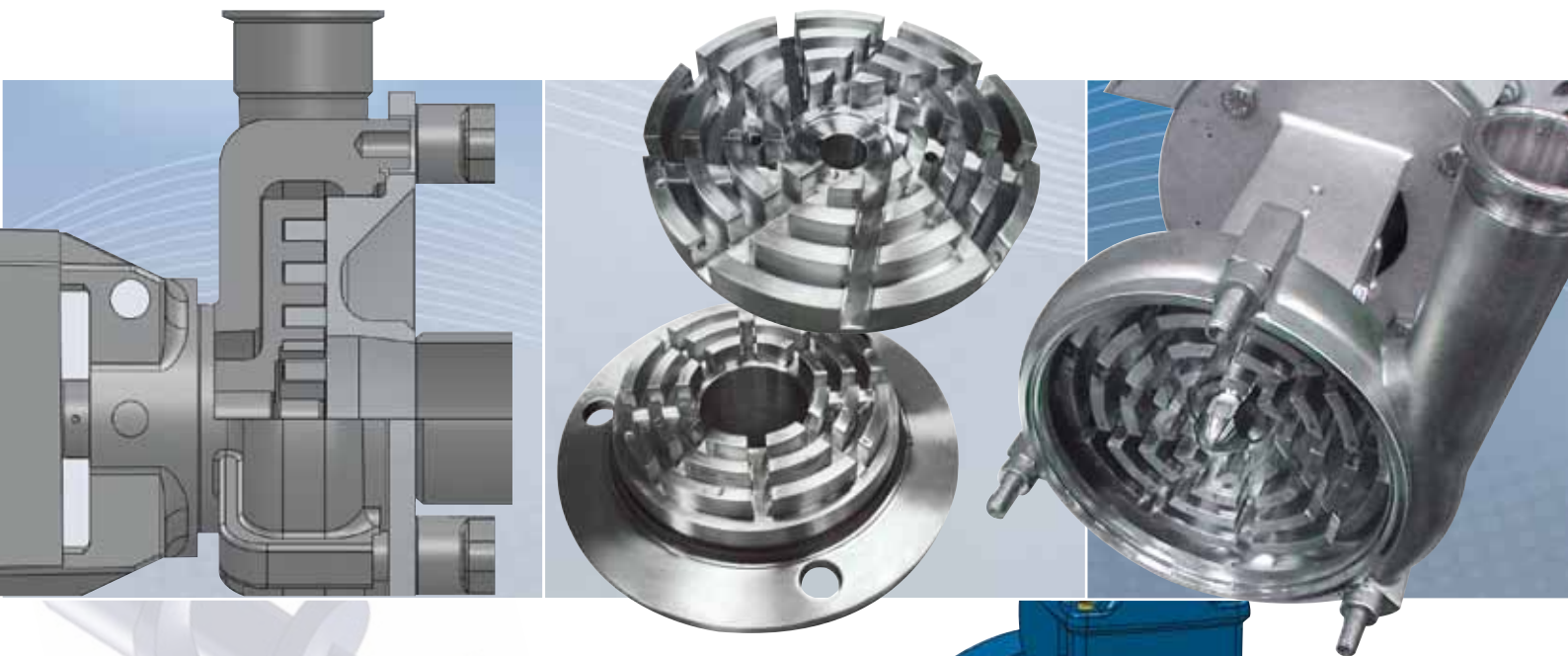
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Ampco Shear Blender SBH – the high-shear mixer

When highest possible product shear is required, we tighten the clearances and let the media go through several shearing stages. This improves the solution quality, for example, by reducing the size of crystals

for quicker solubility. The Ampco Shear Blender SBH ensures smoother product consistency and texture, uniform blending and repeatable mixing results in all processes.



START SAVING AND MIX RIGHT WITH AMPCO

Options:

- Set of variable inducers to help at critical suction conditions or higher viscosities
- Wide range of front-loading mechanical seals (single and double)
- Setup as powder mixers available soon

Advantages:

- Uniform product batches in repeatable quality
- Better mixing means less raw material
- Time saving process
- Less CIP time in the system due to improved solution quality
- Easy adjustable design for different applications with same pump
- Same wear parts as standard centrifugal pumps
- Different sizes to meet the application

