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МИКСЕРЫ И БЛЕНДЕРЫ MIXING FORMULA Технические характеристики



GEA MIXING FORMULA®

High Shear Mixers

Mixing is one of the most demanding unit operations in today's process industries and a critical step in the production of high-quality end products.

Affecting both batch cycle times and total cost of ownership, selecting the most appropriate mixing technology is crucial.

GEA has a wealth of experience in supplying solutions for liquid/liquid and liquid/powder blending. We supply numerous different batch and continuous mixing and blending systems to the hygienic process industries and beyond. Our scope of supply includes both standard units as well as in-house custom-designed systems for a wide variety of applications.

Continuous mixing solutions are often the preferred choice when high product throughputs are required or

a considerable amount of automation is involved. GEA can also supply the most appropriate and compliant process technology, unit or complete mixing solution.

GEA offers mixing solutions that are versatile, hygienic and also suitable for multipurpose manufacturing, including high shear batch mixing, continuous inline blending, continuous inline mixing and modular or bespoke processing solutions. We also supply a wide range of liquid handling solutions, from components to equipment and complete process lines for use in home care production plants.



GEA INLINE FORMULA® SOL High Shear Mixer

The unique and extremely versatile GEA INLINE FORMULA® SOL High Shear Mixer can be used to improve an existing production line or replace existing equipment. More than just a tank with a bottom-mounted high shear mixing device, the customizable multirotor integrated in the GEA INLINE FORMULA® SOL High Shear Mixer comprises a high shear mixing device for effective dispersion and a centrifugal pump that feeds the downstream process.

Concept of the INLINE FORMULA® SOL High Shear Mixer is based on two different working principles - the one-pass process vs the multi-pass process (as illustrated).

Typical applications include beverages, such as juice, soft drinks and dairy products such as recombined milk, nutritional formula.

The advantages of using the INLINE FORMULA® SOL High Shear Mixer are among others:

- A continuous process that can run inline with the downstream process
- Just-in-time production – preparation of the batch at the time needed
- No or only short product storage time of the mixed product before further processing

Computational Fluid Dynamics

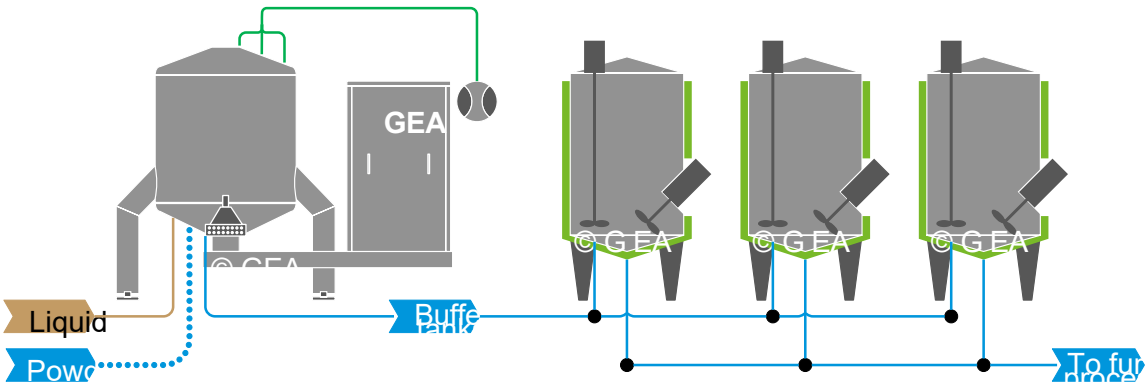
To optimize the design and functionality of the INLINE FORMULA® SOL High Shear Mixer, GEA scientists looked to Computational Fluid Dynamics (CFD) to create a virtual prototype of the machine. By running simulations of the flow of ingredients within the INLINE FORMULA® SOL High Shear Mixer, it was possible to develop a more detailed understanding of the process and analyze certain key parameters required to achieve a product with the desired structure.

Using this information, GEA was able to both increase the performance of the INLINE FORMULA® SOL High Shear Mixer and reduce its power consumption, making it even more effective and cost-efficient.



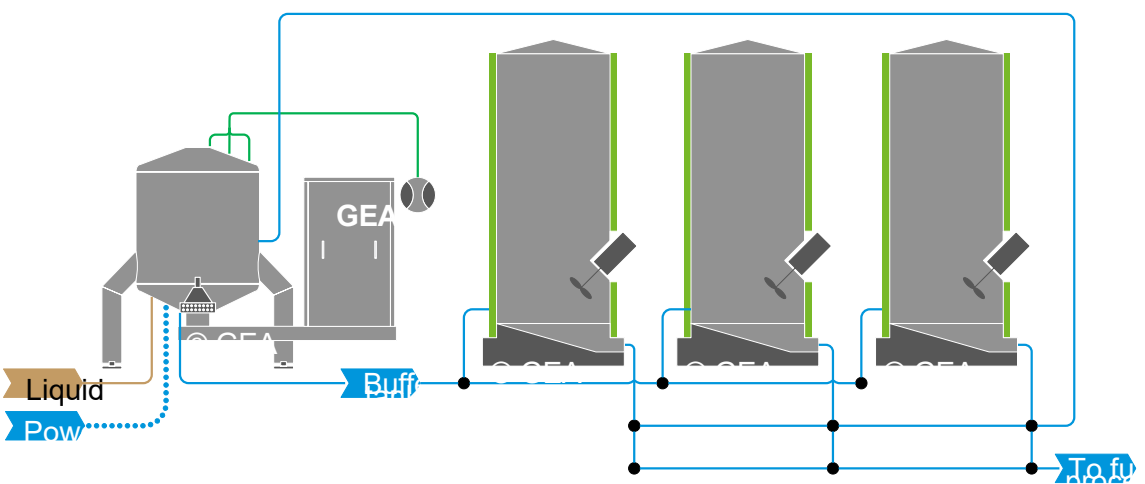
Inline mixing - one-pass process

GEA INLINE FORMULA[®] SOL High Shear Mixer



Inline mixing - multi-pass process

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