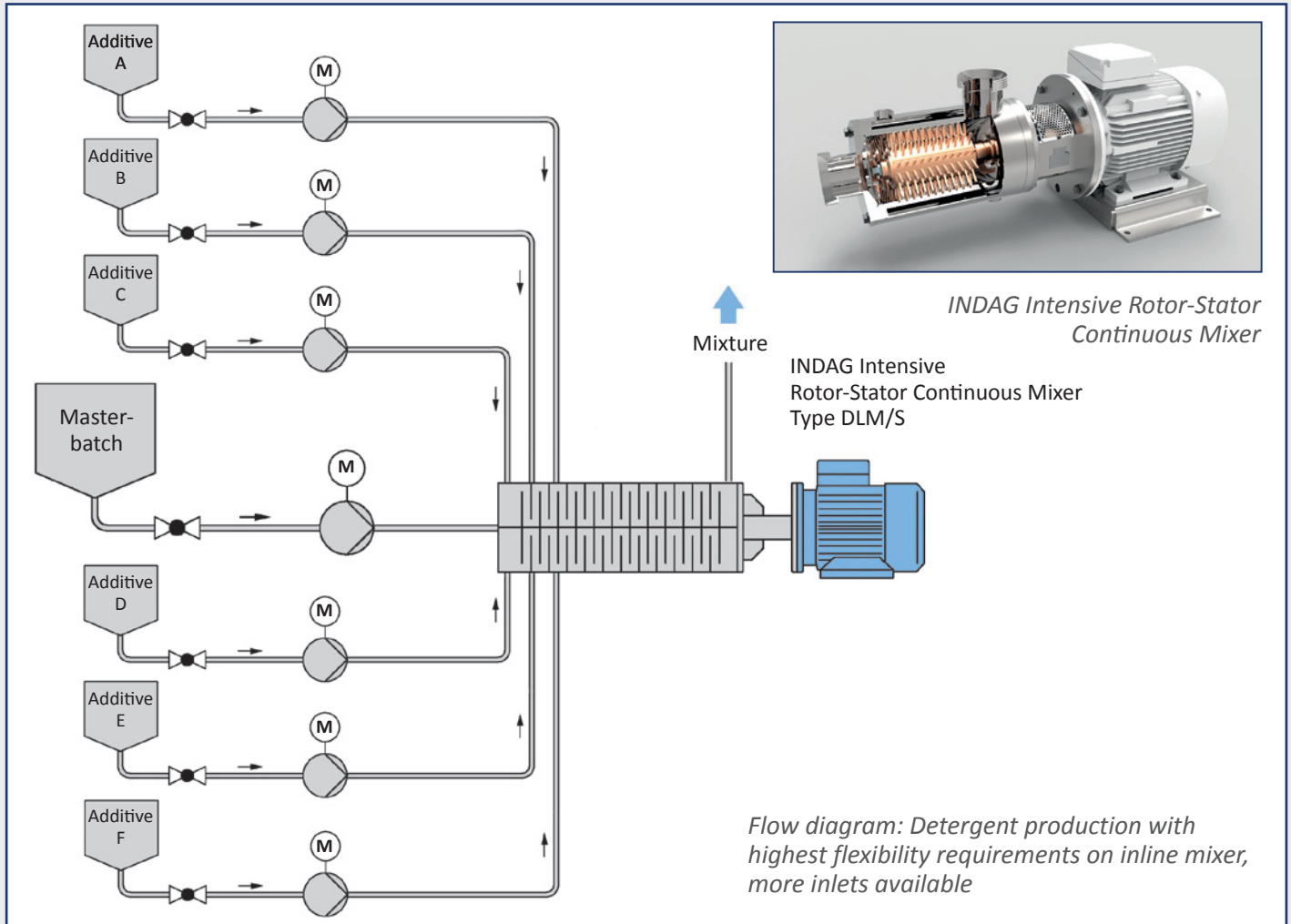


Case No. 106A Inline mixing of detergents and soaps



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Process description

A basic detergent or a basic soap/shampoo, which is described as a „masterbatch“, already contains all the necessary ingredients, such as water, surfactants (SLES), binders, oils and various other ingredients. Only at the end of the manufacturing process are the additives added that make the product unique. These can be perfumes or colors. But also active substances such as enzymes, UV-blockers, alcohols or glycol can be added at the end of the process in a product-specific and very flexible way.

Each of the individual components is added to the dynamic mixer via a separate dosing line. →

Advantages

- End of pipe mixing directly in front of filling line insures highest flexibility;
- Highest flexibility for customers with changing recipes by stopping or starting each single dosing stream individually;
- Efficient mixing with an absolutely homogeneous result within seconds;
- Minimized mixing volume saves product in case of product changes;
- Hygienic design, easy to clean;
- CIP cleanable.

Case No. 106A Inline mixing of detergents and soaps

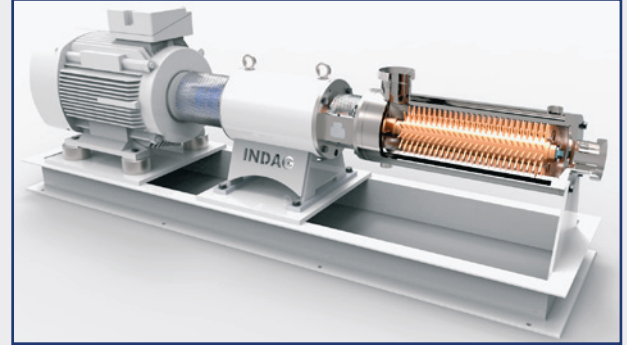


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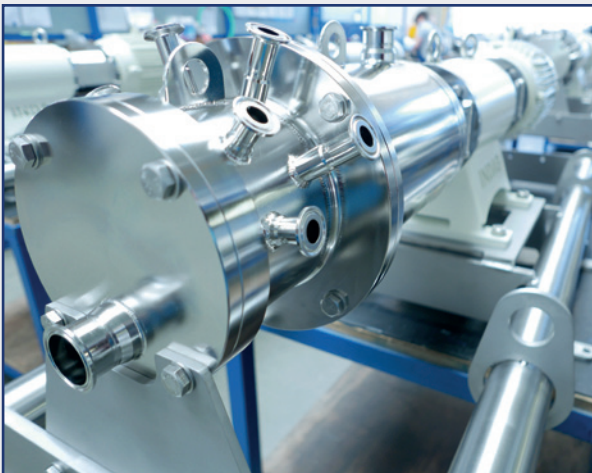
→ Only in the mixer the respective components come together and are homogeneously mixed in a few seconds via the rotor-stator mixing elements. Precise and continuous dosing is crucial for a good mixing result. Precision dosing pumps or pumps with flow meters are used here.

After mixing, the mixture can then be filled into appropriate containers or, if necessary, fed into the next manufacturing process, such as drying.

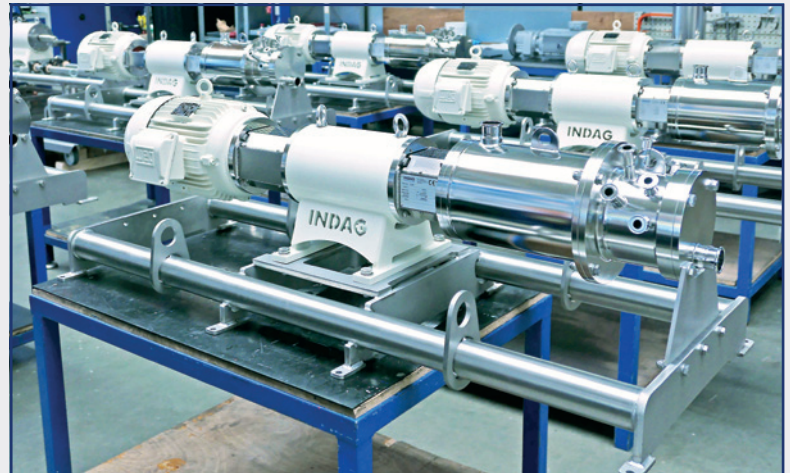
For example, with the same masterbatch, the production of a green shampoo with an apple smell can be changed very quickly to a yellow shampoo with a peach smell.



*Intensive Rotor-Stator Continuous Mixer
with view on mixing elements*



*INDAG Intensive Rotor-Stator Continuous Mixer
with many inlets*



*INDAG Intensive Rotor-Stator Continuous Mixer
ready for dispatch*

Comparable application with a similar process and the same mixer

- Dilution of SLES with an INDAG Homogenizer

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