

# Application Report TANKO<sup>®</sup> GC



## Initial situation

A manufacturer of soy drinks uses heatable tanks with scraper agitators for the production of soy products. Such tanks are usually cleaned using two permanently installed spray heads or targeted jet cleaners, which are mounted above the agitator. This method cleans the tank almost completely—however, the agitator itself remains inadequately cleaned due to its complex geometry.

To clean the agitator, the entire tank is flooded with cleaning medium, depending on its size. Meanwhile, the agitator runs for several hours to self-clean. This process is:

- time-consuming (several hours of downtime)
- resource-intensive (high consumption of water, chemicals, and energy)
- cost-intensive

As an alternative solution, spray heads were installed inside the product chamber. However, these pose hygiene risks: product residues can accumulate in the spray heads, posing a microbiological hazard. There is also a risk of blockages caused by the viscous product, which limits the cleaning effect.

## Solution: Use of TANKO® GC

The choice fell on the rotation-free cleaning device TANKO® GC, which was specially developed for demanding cleaning applications. Its most important advantages:



- **Installation in any position**, even below the product
- **No interfering contours** in the tank, as it is installed externally and therefore cannot collide with the agitator
- **Hygienically safe**, as no product accumulation is possible in the device
- **Targeted full cone jet** with high cleaning effect
- **Low water consumption**: approx. 0.8 m³/h at 3 bar

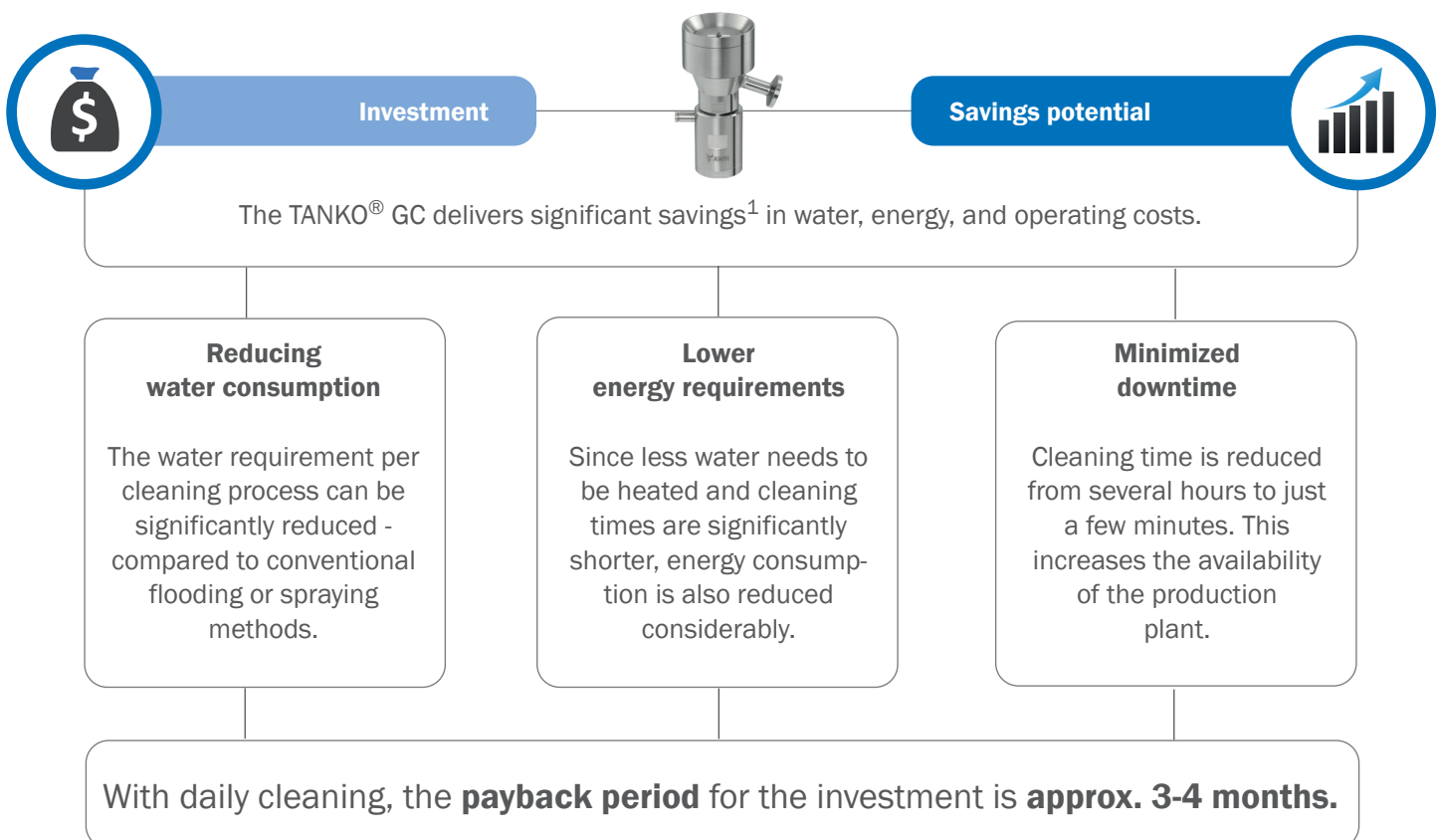
**Five TANKO® GC** units were installed in the application. The total flow rate was approximately 3.2 m³/h. The cleaning time was only 15 minutes, with a total consumption of approximately 800 liters of cleaning medium to completely clean the tank, including the scraper agitators.



## Results and potential savings

critereon	Previous method (flooding)	TANKO® GC Solution	Savings per cleaning
Cleaning medium	approx. 5.000 l	approx. 800 l	approx. <b>4200 l less</b>
Cleaning duration	approx. 4 hours	approx. 15 minutes	approx. <b>3.75 hours shorter</b>

## Economic analysis of the investment



<sup>1</sup> The payback period varies depending on the location (water and energy costs), individual conditions, and the required TANKO® GC model.

## Conclusion

TANKO® GC provided a **sustainable, time-efficient, and hygienically safe cleaning solution** for the scraper agitator. Media consumption was reduced by more than 80%, cleaning time was reduced to a minimum, and no more risky installations are required in the tank. Operating costs were reduced and production availability was significantly increased.



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