

Case Studies

Industry: Food & Beverages

Process: Liquor Brewing

Automating residue discharge from a yeast tank achieves unattended operation without manual labor.

A residue discharge task is quite time-consuming.

A problem at a beer brewing factory that discharging residue from a yeast tank and cleaning the tank interior are quite time-consuming

Sprinkling water into the tank, an operator forces the residue out of an outlet in the tank bottom, but the residue is too viscous to quickly go out.

Cleaning one tank taking a long time makes cleaning of a several tanks a full-day task.



Release from continuously attending. Drastically reducing the process time.

An approach, jetting solid water streams out of multiple orifices of a cleaning nozzle fixed in a lid of the tank like a shower is, proposed.

Agitating and going through the residue, downward water streams reach to the tank bottom and force out the residue, while lateral streams clean the interior wall at the same time.

Just by closing the lid and starting the operation, automated cleaning from watering to discharging is achieved without the manual labor.

In addition, concurrent work at the multiple tanks drastically reduces a total amount of time to clean up all the tanks with the substantially improved work efficiency.



Tank cleaning nozzles

Shower Ball, SWB series

Solid water streams are jetted out of the multiple orifices of the nozzle like a shower.

Operating pressure from 0.1 to 0.5 MPa enables use with tap water pressure.

A threaded joint type and a pin connection type are available. The threaded joint type is for workplaces where falling off of the pin becomes a problem.



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