

Case Studies

Industry: Chemical Processing

Process: Pigment Filling

Automating cleaning of a pigment storage tank reduces the process time to 1/3, achieves concurrent work and improves a work environment.

It is tediously time-consuming and gets an operator soaking wet.

At a chemical processing plant, an operator standing on a pigment tank cleans the tank interior from a height of two meters with a high-pressure washer gun.

Cleaning one tank takes him one hour and cleaning all of several tanks is a full-day task.

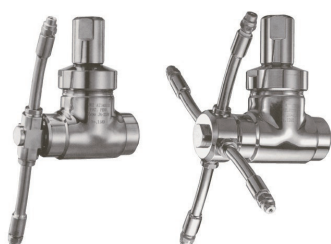
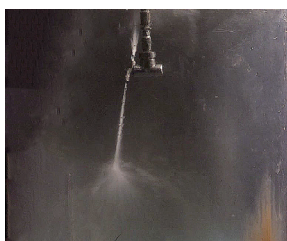
Also, it gets the operator that uses the pressure washer soaking wet.

Release from continuously attending.
No longer getting wet.

First, use of a tank cleaning nozzle eliminates the manual labor.

Next, an automatic lifter enabling cleaning all the way down to the bottom of the deep tank is installed.

These approaches shorten the labor time to 1/3, 20 minutes per tank, enable a transition from cleaning one by one to concurrent work at the multiple tanks, drastically reduce the labor cost, remove the concern of getting soaking wet, achieve efficient work processes and improve the work environment.



Tank cleaning nozzles

JETATTACKER, JA series

Rotation is driven solely by the spray reaction force, and all supplied water is used as driving force and cleaning water for minimal energy loss.

Its operating pressure is from 0.3 to 3.0 MPa



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