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Petrochemical News

The first time dredging work in the cooling tower of SINOPEC Tianjin done by Robot

Like a turtle in the water to swim downstream, flexible and free to move forward, backward, turn, dive, the use of the camera on the Robot, real-time observation of the cooling tower sludge and clean-up. Water treatment Dept. in SINOPEC Tianjin successfully completed first time the dredging operations. In the future, it is expected to be widely used in the dredging work of cooling tower.

The sludge in the circulating water tower mainly comes from the microbial debris after sterilization, the peeling product accumulated at the bottom of the tower, and the deposition of atmospheric dust and sediment. Annual spring and winter two seasons should be dredged to ensure that the quality of circulating water in line with the cooling requirements of the production plant.

A person in charge of the water treatment workshop says, in the past dredging work is based on the water quality test data and operational experience to arrange the work to clean up the pool sludge, but also by the impact of large changes in the weather, dredging process is complex. They need to stop the cooling water circulation, and then use the submersible pump to pump out the pool, which will be cleaned up manually one by one. This method not only has a long construction period, but also wastes a lot of water resources.

"This robot is designed for diving, can adapt to a variety of working conditions for continuous underwater operation and the operation is very convenient.