

OTEC CENTRIFUGE SUSTAINABLE PROCESS WATER TREATMENT



NEW

PROCESS WATER CLEANING AND RE-TREATING

OTEC's newly developed WT-Loop centrifuge enables a highly effective recirculation system to complement existing or newly installed mass finishing machines. Reusing treated process water multiple times helps to save significant quantities of compound and fresh water. The high centrifugal force separates solids effectively, compressing them firmly into sludge and leaving low residue volumes, which in turn keeps disposal costs down.



More information

Areas of application

- Environmentally friendly recirculation system for process water treatment for CF-, DF, and SF-Series
- Flow rate of 1,000 l/h and sludge volume of up to 10 kg

Highlights

- Reduced operating costs thanks to efficient recirculation system
 - Up to 80 % less compound consumption
 - Up to 98 % less fresh water used
 - Reduced mass finishing waste water for a lower environmental impact
- Abraded material from the component or media is removed from the process water, while unused compound remains in the process
- Straightforward operation thanks to automatic container draining and automatic supply of process water purifier and fresh water
- No obligatory monitoring or documentation for recirculation systems required by official authorities

Benefits of the OTEC recirculation system

- Has a flexible modular system for mass finishing machines with varying dimensions
- The water purifier separates the solids effectively and thoroughly, ensuring greater water purity for greater process reliability
- Reduced use of process additives such as compounds improves sustainability
- Compressed sludge volume with very little water residue saves on disposal costs
- Sludge strainer simplifies handling



OTEC WT-Loop with 180 l
Process water container





Process water before and after treatment

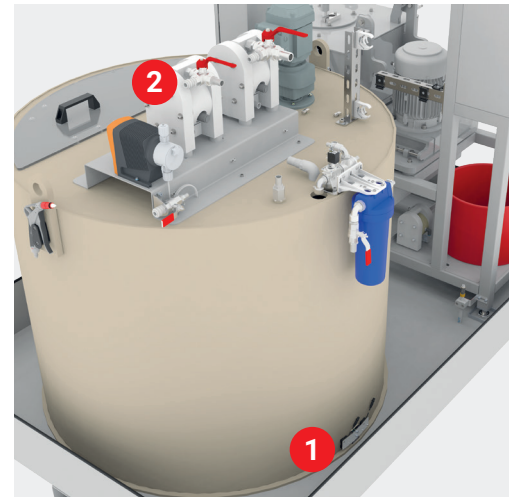
Technical features

- **Process parameters**
 - Water flow rate of up to 1,000 l/h
 - Sludge strainer for sludge weight up to 10 kg
 - Fresh tank/waste tank process water container with option of 180, 250, 500 or 850 l volume
 - Three mass finishing machines can be operated at the same time
- **Operation**
 - Intuitive and straightforward operation using 7" touch display
 - Automatic container draining system and automatic supply of process water purifier and fresh water
- **Configuration**
 - Centrifuge with switching cabinet and process water container, pump package comprising waste water and clean water pump for up to three mass finishing machines
 - Sludge strainer with corrugated container material for easier removal
- **Optional configuration**
 - Dosing pump for process water purifier, collection tray, leak sensors, automatic container draining system, automatic fresh water top up, cleaning water spray gun, vibration sensor
 - Centrifuge available in steel/aluminium or stainless steel



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Straightforward operation

- Automatic systems for:
 - Container draining using suction pipes embedded in container base (1),
 - Supplying water purifier and fresh water.
- Draining monitoring using fill level sensors (1)
- Touch panel controls operation
- Automatic pump switch-off
- Plug coupling (2) for simplified connection of waste water hoses

As a trusted global partner for perfect surfaces, OTEC builds innovative finishing machines which set high standards and achieve perfect process reliability. The revolution in manual processing applications delivers precise results of consistent quality and optimal processing time.

Reproducibly smooth surfaces, defined rounding results, burr removal and a perfect sheen offer a crucial competitive edge for almost all industries. In particular that means saving energy as well as extending the service life and increasing the durability of parts.

OTEC machines with the "Made in Germany" seal of quality stand for dependable technology, high-quality workmanship, reliable operation and a long service life.



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