

AUTOMATIC PEELING CENTRIFUGE ZA

TROWAL CENTRIFUGAL FILTERS

Model Range ZA

WHY EFFLUENT TREATMENT?

After vibratory finishing the effluent (dirty process water) contains abrasive and metal fines, frequently also oil and metals. For this reason, the effluent must be cleaned before going to drain or being recycled back to the finishing process.

CENTRIFUGAL FILTERS

Abrasive and metal fines as well as trapped oil are separated from the process water by way of centrifugal force and can be removed as semi dry sludge. The cleaned process water can be re-used and is pumped back to the finishing machine.

RECYCLING IS "IN"...

The recycling of the process water from the finishing process does not only reduce the consumption of water (up to 98 %), but it also reduces the usage of compound (up to 90 %). In addition, it reduces the cost of waste disposal.



	ZA 04	ZA 06
Capacity (l/h)	1,000	2,000
Sludge capacity of rotary drum (l)	14	28
Centrifugal rating (g)	1,920	2,417
Waste water tank (l)	800	1,500
Process water tank (l)	400	1,000
Type of drive	Direct drive	V-Belt drive
Dimensions (mm) (LxBxH)	1,660 x 2,800 x 2,120	2,250 x 3,000 x 2,200
Average power consumption (kW)	4.0	7.0

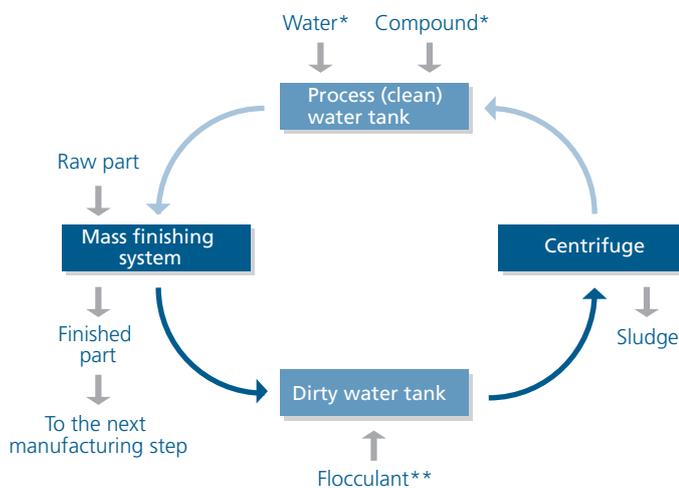
CLEANING BY CENTRIFUGAL FORCE

With the centrifugal filter technology solid fines are removed from the process water with a centrifugal force which is up to 2,417 times higher than the gravity of the earth. Oil and / or extremely fine solids < 1 µm can be removed by adding flocculents. The compound utilized for the finishing operation remains largely in the process water for re-use in the finishing process.

AUTOMATIC PEELING CENTRIFUGES, MODEL RANGE ZA

The fully automatic, PLC controlled models ZA 06 can clean up to 2,000 liters/h of contaminated process water from mass finishing operations. In preset time cycles the sludge deposited on the inner wall of the rotary drum is automatically peeled out and dumped into a sludge container located below the drum. The modular design of the ZA model range offers multiple machine configurations allowing the ideal adaptation of the equipment to the specific customer requirements. These options include different dirty water and process water tanks, water cooling systems, additional pump stations, various dosing systems, etc.

CENTRIFUGAL RECYCLING WITH A PEELING CENTRIFUGE

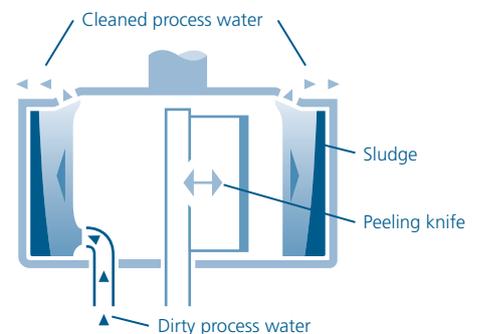


* Because of process water carryout and evaporation water and compound must be continuously replenished

** Flocculants can be dosed into the contaminated water to form larger, easier to remove, flocs of emulsified grease and oil

→ contaminated process water → cleaned process water

FUNCTIONAL DIAGRAM OF AUTOMATIC PEELING CENTRIFUGE



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