WALTHER TROWAL!

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 mud. 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.

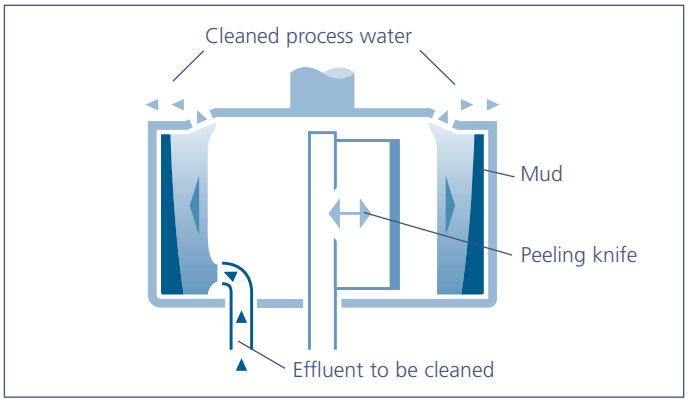
Cleaning by centrifugal force

With the centrifugal filter technology solid fines are removed from the process water with a centrifugal force which is up to 2417 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 centrifuge ZA

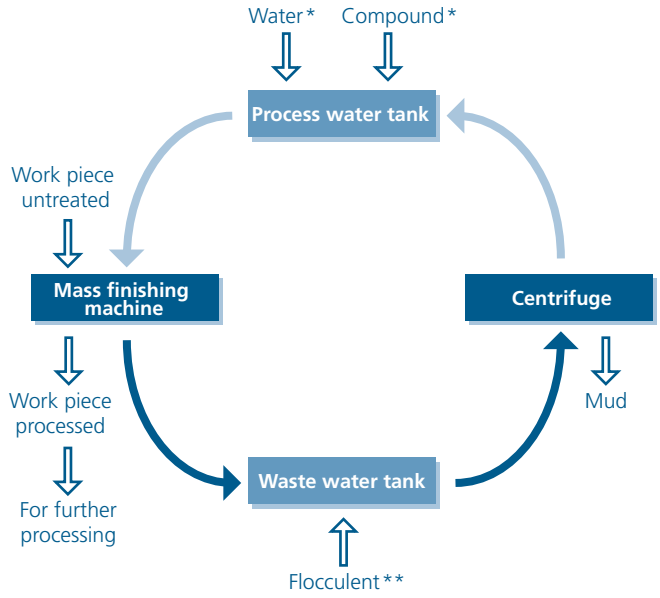
The PLC-controlled automatic centrifuges ZA 04 and ZA 06 can clean up to 2000 litres of mass finishing process water per hour. The mud separated in the rotating drum is peeled off into the mud tank in time adjustable cycles. The modular construction of our ZA model range allows an optimum machine configuration which can be perfectly adapted to customer's specific requirements. For example, by selection of different dirty and process water tank sizes, cooling systems, additional process water pumps, dosing systems, etc.

	ZA 04	ZA 06
Capacity (l/h)	1,000	2,000
Mud volume (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) (L x B x H)	2,500 x 1,700 x 2,100	2,100 x 3,000 x 2,350
Motor power-average (kW)	2	5



Functional sketch of a peeling centrifuge

Centrifugal recycling of a peeling centrifuge



* By carry-out and evaporation of the processing water, water and compounds are continuously replenished.
** Optional addition of flocculents allows the bonding of emulsified grease and oils as well as separating of fines < 1mü
→ Dirty processing liquid → Cleaned processing liquid

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