

**BASKET CENTRIFUGE ZM**

## TROWAL CENTRIFUGAL FILTERS

### Model Range ZM

#### **Why effluent treatment?**

After vibratory finishing the effluent (dirty process water) contains abrasive and metal fines, frequently also oil and metal in solution. 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 2012 times higher than the gravity of the earth. Oil and / or extremely fine solids < 1 µ 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.

## Basket centrifuge ZM

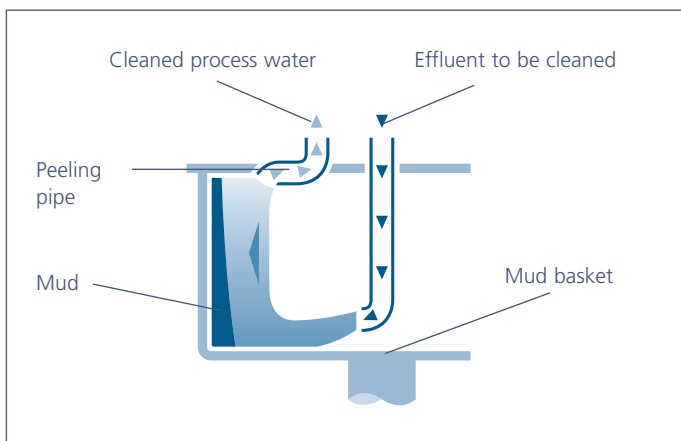
The model version "ZM 03 ECO 1" and "ZM 03 FL" are easy to handle, robust constructions with manual removal and discharge of the mud basket. Within one cycle, up to 14 litres (19 kgs) of mud can be separated. Both models are equipped with PLC for automatic operation.

## Basket centrifuge ZM 03-ECO 1

The ideal solution for treating the effluent from up to 2 mass finishing vibrators and for standard and isolated applications.

## Basket centrifuge ZM 03-FL

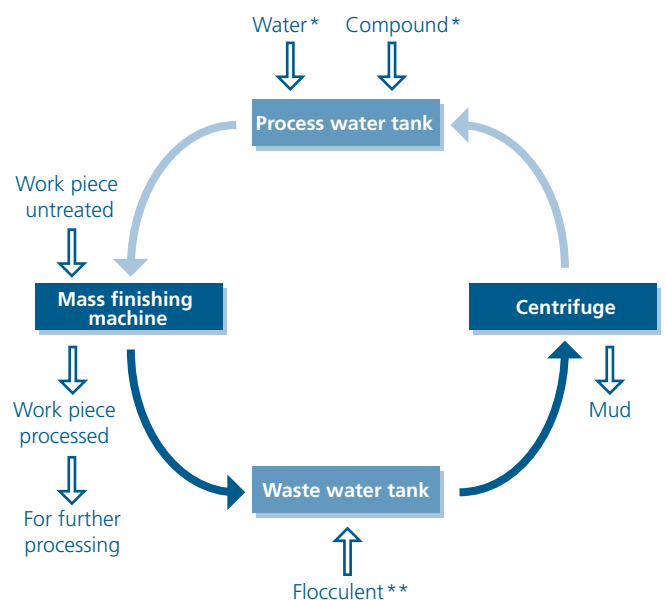
The universal solution for treating the effluent from multiple mass finishing vibrators. Application specific options such as pump station and cooling system can subsequently be added.



Functional sketch of a basket centrifuge

	ZM 03-ECO 1	ZM 03-FL
Capacity (l/h)	1,000	1,000
Mud volume (l)	14	14
Centrifugal rating (g)	2,012	2,012
Waste water tank (l)	200	300
Process water tank (l)	-	150
Dimensions (mm) (L x B x H)	1,400 x 770 x 1,750	1,400 x 1,100 x 1,750
Motor power-average (kW)	1.5	1.5

## Centrifugal recycling of a basket 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