

# Centrifuge

Type: ESA-15



**Recirculation system for  
vibratory finishing water**

**TRUMLINGSAKTIEBOLAGET**

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# Centrifuge ESA-15

**Water purification from tumbling machines through centrifugation.**

Wastewater from mass finishing machines contains water, compound, and a sludge of fine particles from media and metal. Centrifugal separation of the sludge from the water/compound solution allows for recirculation back into the tumbling process, forming a closed system over time.

## Description of ESA-15 wastewater centrifuge

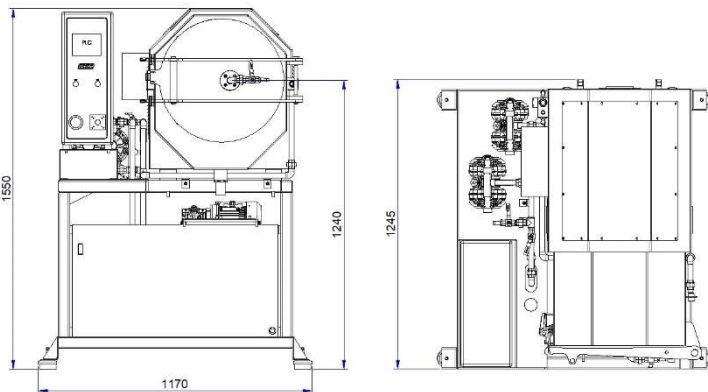
Sludge in wastewater is separated via centrifugation, forming a solid "cake" on the inside of the centrifuge basket. The removal of this cake is done manually through rapid exchange of the centrifuge insert.

## The complete unit consists of:

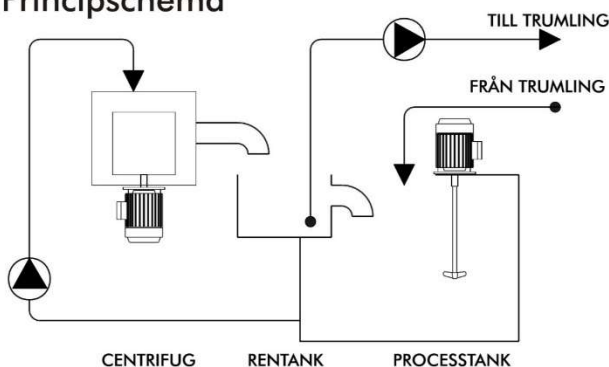
The complete unit comprises a high-speed centrifuge with a stainless-steel drum and a sludge insert of cast polyurethane. It includes a 200-liter process tank with an electric stirrer and a 150-liter tank for purified liquid. Air-powered diaphragm pumps handle feeding from the process tank to the centrifuge and water return to the finishing machines. An electric control panel enables both automatic and manual control, with PLC control and a touch panel for variable adjustment. There's also an output for controlling an external pump tank. Mounted on a steel frame, it's easily transportable with pallet jacks, etc.

## Technical specifications:

Capacity	Up to 500 l/h
Speed	3000 - 3600 rpm.
Sludge volume	7 liter
Acceleration	1500 - 2000 G
Connected Power	4,5 kW
Stirrer motor	0,37 kW
Sludge discharge	Manual
Total dimensions	1170 x 1240 x 1550h
wight	560 kg



## Principschema



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