

Application

The **NEUE HERBOLD** – Separation Tank Type TB is used for separation of plastics with various densities, primarily for film flakes, granulate from PET bottles and other rigid types of plastics. Depending on the application, floating particles like film flakes or sinking particles like PET bottle flakes are separated from other high density plastics. The standard separation tanks are manufactured from stainless steel 1.4301.

Function

The material is fed to the tank, especially designed separation plates and paddle rollers transport the material through the water quench. Good separation results are achieved, due to the long retention time of the material in the tank.



Feeding systeme

The material is fed through a feeding screw or directly to the tank.



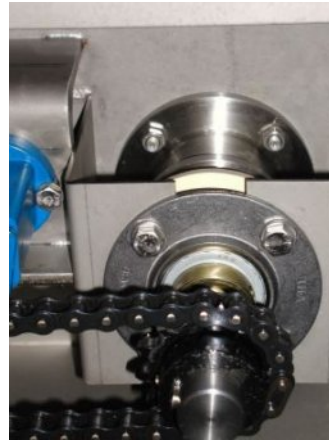
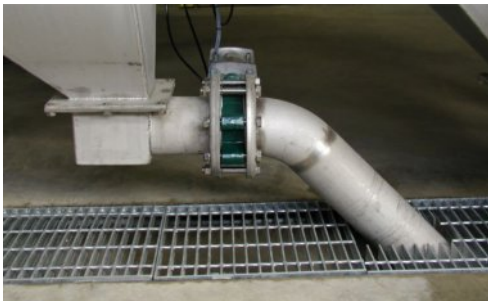
Discharge systeme (floating particles)

The floating particles are discharged by a cross positioned discharge screw.



Discharge systeme (Sink fraction)

In tanks for recovery of float fractions (specific gravity 1 g/cm^3), the material discharge is handled by pneumatical valves, which open up intermittently to discharge the sink fractions. This discharge system is mainly used for small amounts of sink fractions. In cases of larger amounts of sink fractions, the discharge is handled by screws or scraper conveyors.



Sealing

The rotating shafts and axes are sealed by packing of the stuffing box.

Separation tank (Floating tank) for PET



In tanks for recovery of sink fractions (specific gravity g/cm^3), the material discharge is handled by oversized discharge screws.

As an option the tanks may be equipped with a heating system and an insulation on the outside. This special design pre-heats the PET-flakes and humidifys them with caustic soda solution and detergent. These tanks are made of stainless steel 1.4571.

For this kind of application a screen is assembled in front of the material discharge, where the additives are discharged for recycling.

