



FLOTTWEG DECANTERS
for Limed Fleshings Treatment



LIMED FLESHINGS

Make the Most out of Your Tannery Waste!

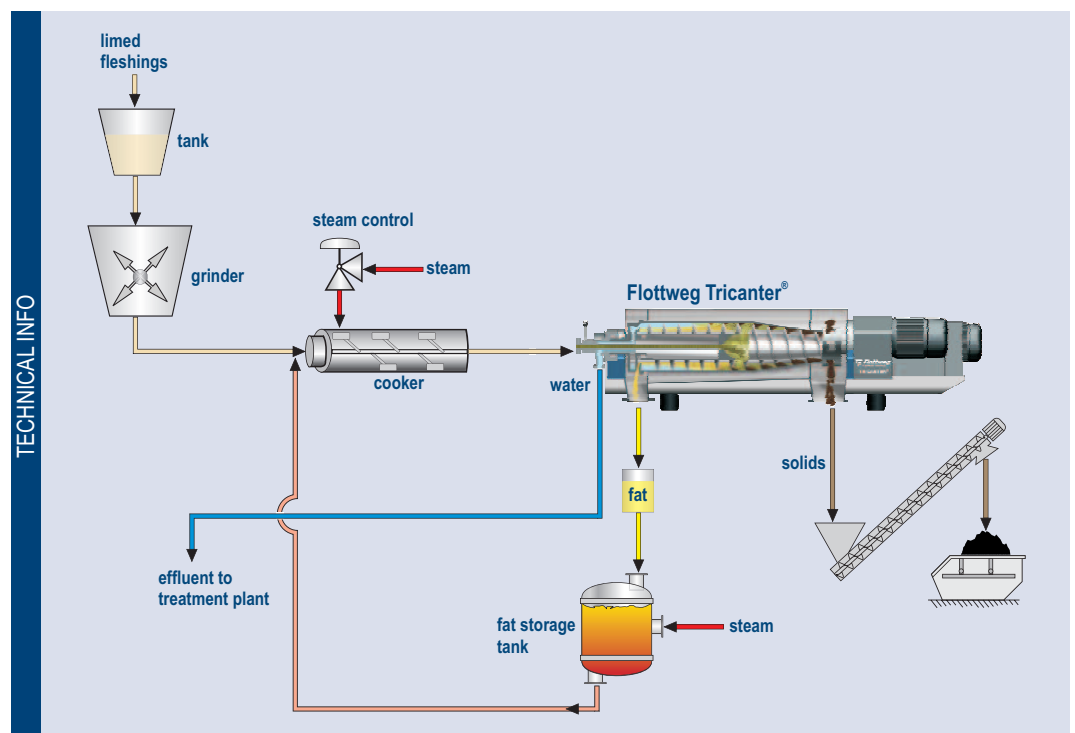
Limed fleshings are by-products generated during the traditional tanning process. Once the hides are removed from the processing vessels, they are slippery, alkaline-swollen, and translucent. At this stage, the residual flesh and tissue remaining after skinning can easily be cut away from the corium using a fleshing machine. In the past, these fleshings were used for hide glue production. Currently, most of the fleshings are sent to a landfill site for disposal. This method of disposal generates very high costs.

Nearly twenty years ago, Flottweg carried out first tests with this product using the Flottweg Tricanter® Technology. Since then, a reliable and successful process has been developed in order to reduce disposal costs while providing the additional benefit of recovering valuable fat.

Economic developments, especially increasing fuel prices, make fat recovery (average content approx. 10 %) increasingly interesting. The extracted fat can also be utilized as boiler fuel for steam production (electric power).

Benefits of the Flottweg Limed Fleshings Technology

- Tremendous reduction of material for disposal. Only 10 % of the original amount remain for disposal
- Recovery of valuable fat
- Different plant sizes available
- Flottweg Tricanter® Technology ensures maximum flexibility
- Fully automatic operation possible
- Delivery of complete process lines
- Easy process, no additional chemicals required
- Different processes available

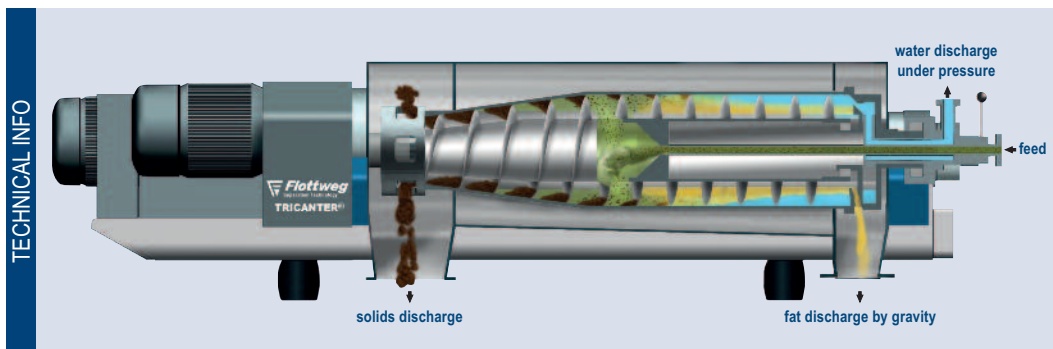


Limed fleshings treatment plant

CORE OF THE PROCESS

The Flottweg Tricanter® is available for continuous liquid-liquid-solid separation. The special design of the Tricanter® allows the separation of two liquids and one solids phase during a single processing step. The variable impeller ensures the optimum setup of the machine even during changing feed conditions.

With the variable impeller, the position of the separation line between the light and the heavy liquid phase can be readjusted without stopping the machine. Results will appear shortly.



Separated fat



Separated solids

FEED AND RESULTS USING THE FLOTTWEG TRICANTER®	
Typical feed composition	7 - 15 % fat / 75 - 85 % water / 8 - 15 % solids
Fat discharge	> 98 % fat / less than 2 % impurities and moisture
Solids discharge	35 - 45 % dry matter in solids

TECHNICAL DATA

TECHNICAL DATA FOR FLOTTWEG TRICANTER®				
Type	Z3E-4/441	Z4E-4/441	Z5E-4/441	Z6E-4/441
Bowl diameter	300 mm	420 mm	530 mm	620 mm
Max. bowl speed*	5250 rpm	4000 rpm	3500 rpm	3200 rpm
Differential speed*	1.5 – 30 rpm	1.5 – 30 rpm	1.5 – 30 rpm	1.5 – 30 rpm
Construction materials	All parts in contact with the product are made of high quality stainless steel (AISI 316 and superior)			
Motor for bowl drive	15 kW	22 kW	30 kW	55 kW
Motor for scroll drive	7.5 kW	7.5 kW	11 kW	11 kW
Max. capacity*	2 t/h	4 t/h	7 t/h	9 t/h

* The listed figures are guidelines for information only.

Flottweg Separation Technology – Engineered For Your Success



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