FLOTTWEG DECANTERS
for Limed Fleshings Treatment
Lim ed fleshings are by-products generated during the traditional tan -
nin 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 flesh-
ings 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 Lim ed 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

![Diagram of Limed fleshings treatment plant](Diagram_of_Limed_Fleshings_Treatment_Plant.png)
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.

### Technical Data

#### Technical Data for Flottweg Tricanter®

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

* The listed figures are guidelines for information only.

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**Feed and Results using the Flottweg Tricanter®**

<table>
<thead>
<tr>
<th>Typical feed composition</th>
<th>7 - 15 % fat / 75 - 85 % water / 8 - 15 % solids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fat discharge</td>
<td>&gt; 98 % fat / less than 2 % impurities and moisture</td>
</tr>
<tr>
<td>Solids discharge</td>
<td>35 - 45 % dry matter in solids</td>
</tr>
</tbody>
</table>