INDEPENDENT, TRADITIONAL, AND INNOVATIVE
Flottweg Separators for Craft Breweries
Tradition and the modern are no contradiction at Flottweg. Every machine or system embodies Flottweg Company Values and this philosophy of the company. Our experience grows with each and every customer success story. Our know-how from the last 60 years goes into the most modern of our machines and systems. Efficiency, long service life, and high quality are top priority for us.

Tradition and the modern also play a significant role for craft brewers. Every beer is unique in its own special way – it is individual. A sustainable attitude oriented towards the future is just as important as the quality of the beer brewed, as well as the flexibility to develop new varieties. But how can the goals for individuality, quality, and flavor that are important for craft brewers be met?

This is where Flottweg comes into play. Separators for use in craft breweries help guarantee the outstanding quality of the beer and the flexibility needed. Flottweg will find a solution tailored to your specific application case. Optimize your brewing process and discover important potential savings.

Benefits of Flottweg Separators

- With a Flottweg Separator, oxygen pickup is guaranteed to be less than 20 ppb
- High separation efficiency up to 99.7% depending on beer style and inflow turbidity
- Separator can be effectively cleaned and sanitized by CIP without any disassembly
- Fully automated operation
- Skid mounted system for easy and trouble-free installation
- Designed and built in Germany to the highest quality standards
Our passion for planning, designing and building machines – that passion for technology has been a key part of us since our founding. Our project development department is right next door to our sales group, guaranteeing short communications paths. That means discoveries from new applications can go directly into further development.

That fact, combined with a system tuned specifically to your application, offers palpable added value. We see your process as a whole, and design your entire system accordingly, since only the combination of all process steps makes peak efficiency possible. Our installations and skid systems are fabricated in-house, meaning highest reliability and scheduling accuracy for you.

<table>
<thead>
<tr>
<th>TECHNICAL DATA FOR FLOTTEweg BEER SEPARATORS*</th>
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<tbody>
<tr>
<td>Type</td>
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<tr>
<td>Capacity</td>
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<tr>
<td>Bowl speed</td>
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<td>Rated power</td>
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* The values here are guidelines, not exact specifications
FEATURES AT A GLANCE
The Heart of the Centrifuge

FLOTTWEG HYDROHERMETICS
- Design includes a water seal with deaerated water
- Efficiently prevents the beer from absorbing oxygen
- No additional CO₂ purge needed
- No mechanical wear
  (in comparison to mechanical seals)

DISCHARGE OF THE CLARIFIED BEER USING AN IMPELLER
- Removal of the clarified liquid under pressure, preventing the beer from foaming

THE BOWL MATERIAL
- High-quality stainless steel
- All product-wetted parts are CIP-ready
- High surface quality of product-wetted parts for efficient CIP cleaning
- Automatic flushing programs for effective CIP cleaning
- FDA certificate or FDA compliance available for seals

THE SEAL PROTECTION
- High wear resistance
- Longer service life for the separator
- Economical since only wearing parts are replaced
THE FLOTTWEG SOFT SHOT® SYSTEM
- Use of only partial discharges during separation for highest product yield. Full discharges only during cleaning cycle
- Material-friendly and extremely quiet solids discharge, no metal to metal contact during discharge
- Discharge times can be adjusted with high precision for highest possible product yield or fully automated through turbidity monitoring

THE SEPARATOR BOWL
Maintenance-Friendly
- Compact, robust construction
- Easy installation and dismantling
Low Operating Costs
- Reduced quantity of components and seals
- Quality Made in Germany

DISC PACKAGE AND DISTRIBUTOR – THE HEART OF THE BOWL
Gentle
- Smooth acceleration of the beer due to optimized distributor design, for gentle processing of the product and minimal shear
Efficient
- Highly efficient solids discharge and maximum separation efficiency when separating yeast and hop matter from beer due to optimized flow behavior within the bowl
THE FLOTTWEG AC SERIES
Designed to Your Requirements

The Flottweg AC Series is specifically designed to the needs of breweries. For convenient installation and start-up, we deliver the machines and control cabinets as well as the connection panels preinstalled on compact stainless steel platforms. Upon request, individual units are also available to comply to specific on-site conditions in the brewery.

- All components and monitoring systems (valves, sensors, etc.) are preinstalled for easy commissioning as well as easy integration into the brewing process and the existing CIP control system.
- Fully automated operation with turbidity monitoring and additional sensor systems (pressure, temperature, throughput, dissolved oxygen).
- Maximum flexibility with recipe customization (depending on the variety of beer being processed)
- Reliable, secure signal interchange for integration into a higher-level control system
FLOTTWEG EQUIPMENT IN BREWING PROCESS
Solutions for all Process Steps

**SPENT GRAIN DEWATERING WITH FLOTTWEG BELT PRESS:**
- Product can be fed directly from Lauter Tun
- High cake solids of about 42% w/w can be achieved
- Fully hygienic design as the press-through liquid can be reused in the brewing process, while solids can be used for cattle feed
- Very low energy requirements compared to alternative technologies

**REDUCTION IN WASTE WATER WITH FLOTTWEG C-SERIES DECANTER**
- Use of decanter technology can help relieve wastewater treatment system of the solids load
- Effective dewatering minimizes disposal costs

**HOT WORT RECOVERY WITH FLOTTWEG DECANTER OFFERS THE FOLLOWING BENEFITS:**
- Recovered wort from trub is virtually solids free
- Higher dry substance of up to 35% w/w means higher extract yield
- High flexibility to change products and capacities using our variable impeller technology
- Easy to integrate into existing production and CIP process
- High wort recovery, especially on IPA's

**BEER RECOVERY FROM SURPLUS YEAST WITH FLOTTWEG SEDICANTER:**
- Recovered beer can be returned to the brewing process for additional yield
- Highest yield compared to any other competing technology
- High clarification efficiency due to high centrifugal force (up to 10,000 g)
- Fine adjustment during operation using our variable impeller technology
- Machine is designed especially for brewer’s yeast and meets the high hygienic standards for brewing processes.