



SEPARATION

# FLEXIBILITY FOR ARTISAN CRAFT BEERS

ANDRITZ FILTER PRESSES  
FOR MASH FILTRATION

**ANDRITZ**

ENGINEERED SUCCESS

# Create artisan craft beers with no limits on ingredients

Looking for high flexibility to be able to change your recipes? Want to increase your brew house production output and keep investment cost under control? Are new recipes with alternate raw materials creating production challenges in your brewing process? ANDRITZ mash filters, specially designed for micro-breweries and craft brewers, deliver well defined and outstanding wort qualities. At the same time, the mash filter gives you a high level of flexibility to design artisan craft beers for your customers.

## FLEXIBILITY AND OUTSTANDING WORT QUALITIES

Modern production processes with alternate brewing ingredients need a reliable, fast and flexible wort separation solution with highest efficiency and low operating costs. In the beer production process, filter presses are needed to ensure separation of the liquid malt extract (wort) from the solid draff. Subsequently, the wort is boiled with hop cones, cooled, and fermented with yeast to make different types of beer, while the squeezed draff can be used as kettle feed with low moisture content.

ANDRITZ filter presses for mash filtration help craft brewers to produce standardized, high-quality worts with high flexibility and maintain the production schedule over the entire process. Features such as the low oxygen pick-up design and innovative turbidity standardization unit ensure quality-preserving operations.

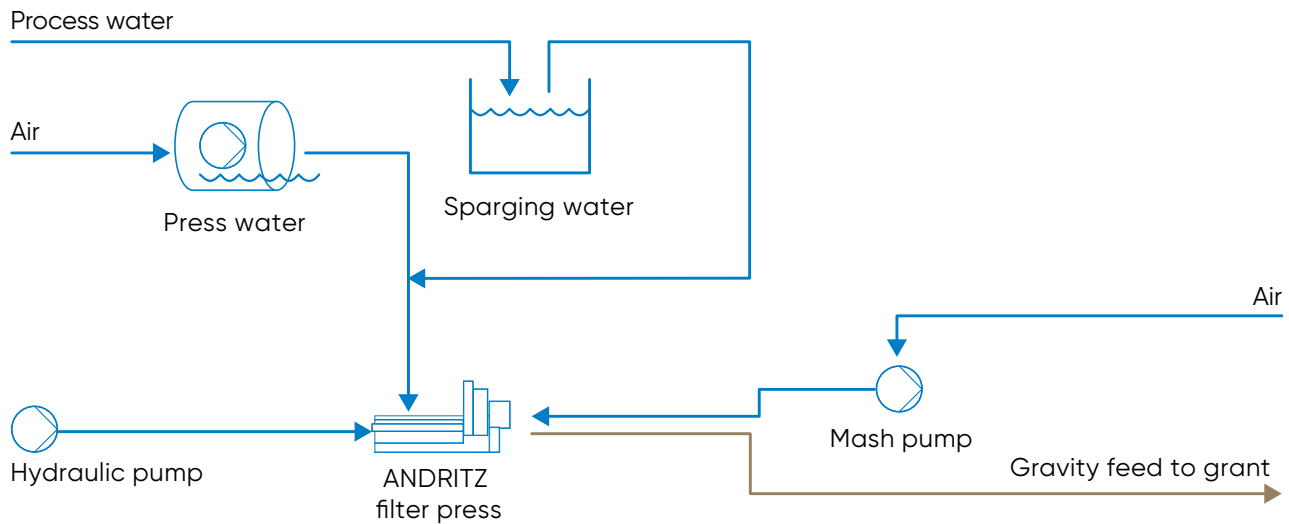
## YOUR BENEFITS

Choosing the ANDRITZ filter press for mash filtration brings the following advantages:

- Easily adaptable for self-operating process with more flexibility in your recipes
- Limited operator supervision required
- Smaller footprint
- Highest wort quality and gravity (up to 22°P)
- More throughput compared to lauter tank (up to 30%)
- High OBE (Overall Brewing Efficiency) with 100% yield
- Highly flexible thanks to splitting plate
- Dryer product for perfect spent grain discharge
- Preserves the quality of the final product
- Easy to retrofit and install in existing plants



ANDRITZ sidebar filter press with steel/stainless steel design for a hygienic process



Mash filtration process including a filter press with a filtration area of up to 112 m<sup>2</sup> and throughput up to 67 hl/brew based on gravity 17° Plato

ANDRITZ filter presses for mash filtration benefit from the following characteristics in order to guarantee the greatest possible flexibility while maintaining a hygienic process:

- **Hygienic design and CIP availability:** Closed system that can be sterilized with steam and CIP system to ensure a hygienic process.
- **Spent grain discharge:** Easy and fast (manual) operation.
- **Low oxygen pick-up:** Closed system and no contact with the atmosphere to avoid contamination risks.
- **Plate sealing:** Proven sealing technology (low oxygen, sparging efficiency, liquid-tight, no loss of wort, no leakage, no dripping, hermetically sealed,...).
- **Splitting plate:** Greater flexibility for smaller or individual batch sizes or different recipes.

In addition, ANDRITZ filter presses for mash filtration can be provided with additional features as an option (list is not exhaustive), including:

- **Chamber depth:** 40 mm suitable for different recipes.
- **Various plate designs:** Chamber plate, membrane plate, or mix plate to fit perfectly depending on the process for high-gravity brewing (HGB) or original gravity brewing (OGB).
- **Fully automatic plate shifting device:** Can be equipped with semi- or fully automatic plate shifting device to enable free access to filter plates.
- **High-pressure cloth washer:** A cloth washing device with up to 100 bar pressure can be installed to ensure throughput, performance, and longer filter plate and cloth lifetime.



ANDRITZ sidebar filter press with small footprint design



## WHAT'S YOUR SEPARATION CHALLENGE?

ANDRITZ Separation is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years, we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals, and mining & minerals. As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge. **Ask your separation specialist!**

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