Best dewatering and drying technology for wet spent grains processing plants

**VetterTec Screw Press for wet spent grains**

VetterTec screw presses are used to pre-dewater wet spent grains prior to the drying section. This will reduce the energy demand to the dryer, and thus the operation cost, significantly. Wet spent grains are fed to the pressing screw through a feed hopper, and the screw press conveys them into the compression area, where the press and further compressed during transportation.

The achieved by reducing the volume of the wet spent grain material. The pressed out water escapes through screen cages. At the end of the pressing section, the material falls through a discharge hopper that feeding the press.

**VetterTec Tube Bundle Dryer for wet spent grains**

A tube bundle dryer uses steam for the drying process and works indirectly as a combined contact and convection dryer. This drying principle is very gentle with the product and safe in terms of explosion and fires.

At the same time, the amount of air is in the vapour is very low and potentially a high percentage of the drying energy can be recovered by re-use in boundary processes (energy integration).

**VetterTec Spray Dryer for wet yeast**

VetterTec yeast dryer plants are used to dry the yeast coming from the fermenting cellar and the storing cellar in breweries. Therefore VetterTec offers spray dryers, which are pure convection dryers and atomise the liquid product at the product inlet.

A number of different designs with integral fluid bed, external fluid bed, different air outlets, different chambers, etc. are available to provide the desired particle size and moisture content of the final product.

**Achieving sustainable success**

**Proven Systems**

As you will find all dewatering and drying technologies for the breweries processing industries in the product portfolio of VetterTec, VetterTec is able to integrate or combine these technologies in order to serve single point responsibility and optimised solutions in terms of optimal product quality and minimised energy consumption.

All our systems will be designed individually, so feel free to contact our experts.

**Parts and Services**

Our commitment doesn’t stop after successful production startup, VetterTec is offering to continue the close relationship with the customer to ensure an optimised life cycle in terms of cost and performance.

- Plant Performance Optimisation
- Troubleshooting
- Training
- Plant Retrofitting
- Preventive Maintenance
- After Sales Services
**Brewery Industry**

VetterTec technology is used for collection, conveying, dewatering and drying of spent grains as well as for yeast drying in the brewing industry.

**Spent grains**
VetterTec supplies a complete component conveying and storage solution for spent grains through the brewery. VetterTec Screw Presses and VetterTec Dryers can be used to dewater and dry spent grains in the required final moisture. Dry spent grains contain 20 to 26% crude protein and are used as a pure, natural addition to animal fodder.

**Combined spent grains and yeast drying**
In order to increase the protein content in spent grains, yeast can be mixed up with spent grains. This system combines an increase of the product value with minimisation of the total investment. The dried product contains a percentage of 48% crude protein (highly digestible) as per the ratio of yeast and spent grains.

**Yeast drying**
VetterTec technology is also used for yeast drying in the brewing industry. Dry yeast contains more than 60% crude protein (highly digestible). It is a completely natural product, which is used as an additional fodder additive for ruminants, pigs, horses and poultry.

**Complete system solution**
VetterTec has the competence to deliver the complete system starting after the lautering and filter up to the final bagging or truck loading.

**VetterTec Advantage**

- All technologies are group designed and manufactured
- Best technology well selected for your application
- Focused technologies and applications
- Innovative and proven used solutions
- Optimised and validated drying processes
- Cost effective solutions

**Best dewatering and drying technology**
for wet spent grains and wet yeast processing plants

For wet spent grains and wet yeast processing plants, VetterTec offers the complete range of screw presses and dryers.

**Applications**
- Collection of spent grains
- Dewatering spent grains
- Drying spent grains
- Conveying
- Storage
- Drying yeast
- Combination of drying yeast and spent grains
- Pelletising spent grains

**What you get:**
- Increased productivity
- Storage of wet spent grains
- Continuous operation
- Pre-dewatering system
- Buffer tank extension
- Professional drying technology
- Heated by saturated steam
- Controlled particle size
- Centrifugal and nozzle atomisers
- Low powder temperature drying
- Lowering emissions
- Continuous operation
- Indirect heating
- Pre-dewatering wet spent grains
- Prior to the drying section
- Pre-dewatering system
- Buffer tank extension
- Indirect heating
- Heated by saturated steam
- Controlled particle size
- Centrifugal and nozzle atomisers
- Low powder temperature drying
- Lowering emissions