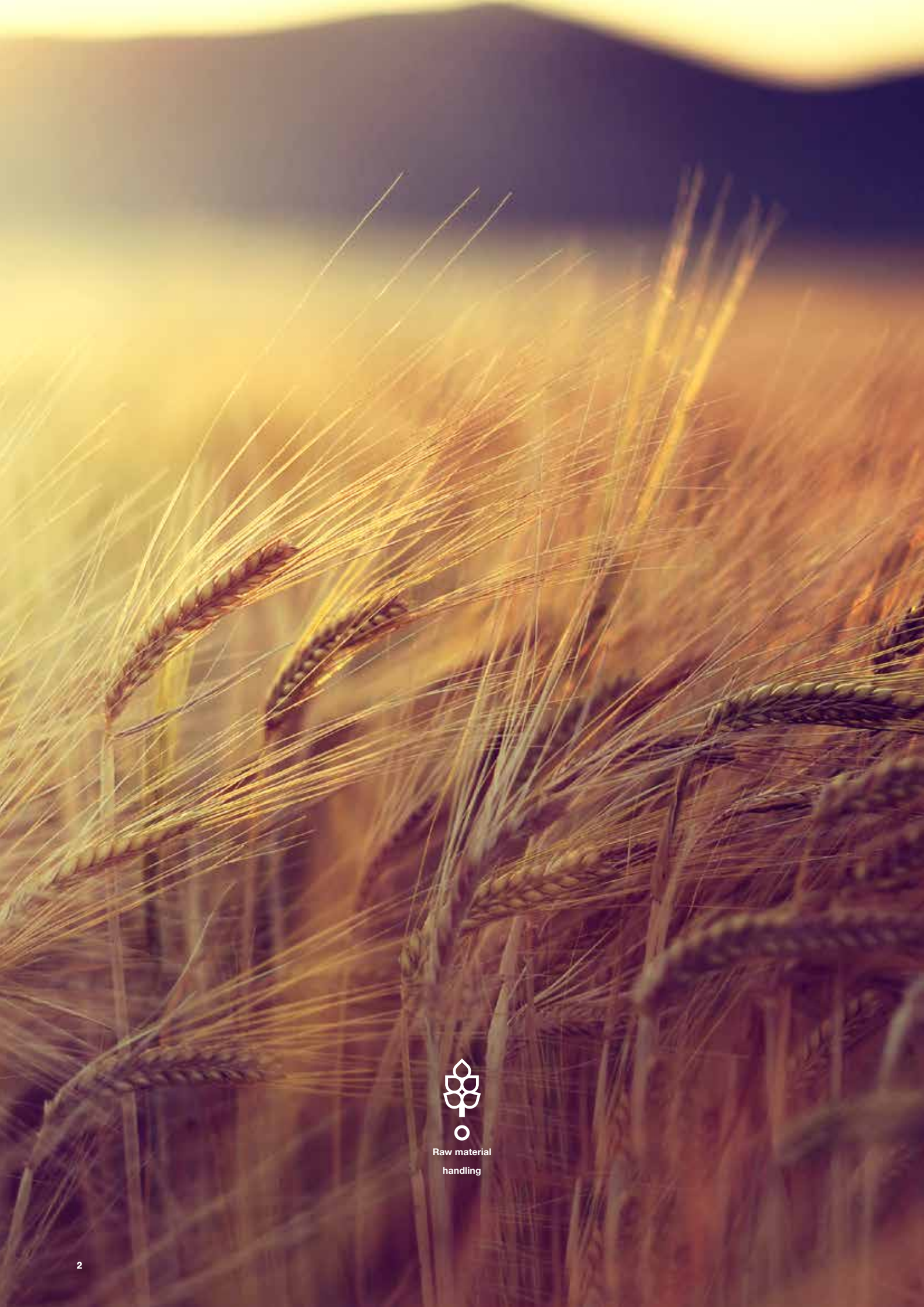


A hand holding a tall glass of beer with a white head of foam. The background is a warm, bokeh-lit bar setting. A white text box is overlaid on the left side of the image.

**High-quality production  
of beer and spirits.**

Optimal processing of  
precious grain and malt.

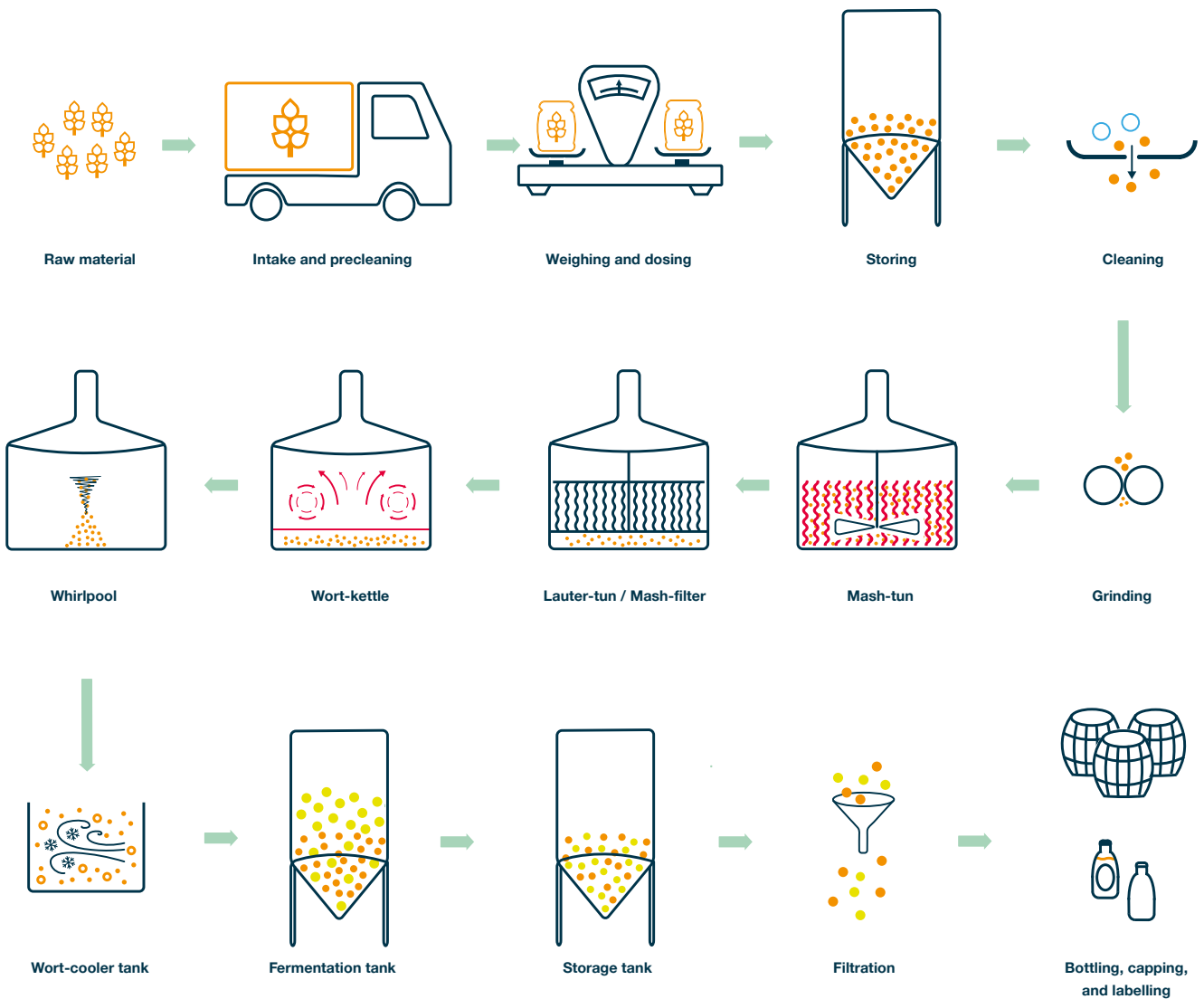


Raw material  
handling



# Careful processing of valuable raw materials. **This is how beer begins.**

Bühler offers the latest process technologies and solutions for the production of beer and spirits. The optimal treatment of grain and its processing to produce high-quality grist is the basis for an efficient brewing process. Bühler is your partner for solutions from raw material to grist and can support you in optimizing the entire brewing process.





Grain and malt



Intake, transport, and storage



Cleaning



Conditioning



Grinding



Additional elements



Customer Service



Grist

# Gentle transport and storage solutions. Perfect for any raw product.

Because flavor is key, also raw materials require close attention. Gentle transport and correct storage is the first step to brew the perfect beer. From intake at the receiving pit until the transport to the brewhouse - our solutions are perfect for your needs.



## Pneumatic conveyor for conventional or gentle transport

Rapid «Fluid lift» conveying for mealy or grainy products. Gentle dense-phase conveying «Taktschub» for gentle malt transport.



## The conveyor systems for vertical or horizontal transport

Screw conveyors, elevators, and trough chain conveyors with wear and explosion protection, longer service life, and high operational reliability.



## TUBO – the new tubular push conveyor

Loose pushing elements for three-dimensional, horizontal and vertical transport at low speed with no need for additional explosion protection measures.



## Intelligent intake and storage

Intake of raw materials with storage and discharge systems. Reliable, economic storage in flexibly configurable silo systems.





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# Reliable cleaning. **Reduction of wear in the system.**

Grain and malt often contain contaminants like foreign seeds, stones, dirt, and other foreign bodies. With our machines, you get pure raw material, free of contamination.



**Combicleaner MTKB with four cleaning functions**

Efficient grain cleaning: Classification by specific weight, screening out of fine and coarse particles, removal of stones, and aspiration of lightweight product.



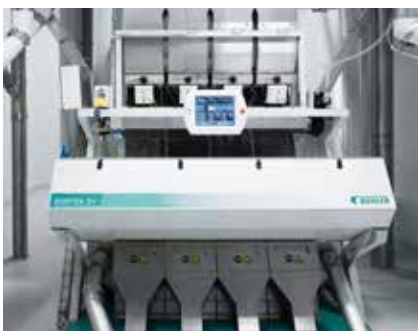
**Screening machine GrainPlus LAGA to remove contaminants**

Optimal cleaning of the grain by separation of light and coarse fractions and separation of metallic parts with an optional magnet.



**Destoner MTSC for separation of stones and glass**

Separation of heavy parts from the continuous product stream with an excellent separation resolution. Low energy consumption thanks to an integrated air circulation system.



**Optical sorting with SORTEX**

Camera-based control and separation of defects and contaminants such as fusarium, burnt barley, insect parts, or black ergot.



**Flow balancer MZAH for exact product mixtures**

Gravimetric, constant product dosing for the manufacture of product mixtures using measurement cells with high weighing precision.



**Strong magnets to combat iron parts in the process**

Removal of magnetic iron parts from grainy products for reliable protection of machines and increased system availability.





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# Homogeneous product moistening. **Short lautering times, exact water dosing.**

Modern lauter-tun systems achieve top lautering speeds whether you are using wet or dry grinding. Conditioned dry grinding offers maximum yield at high husk volume, increasing cost-effectiveness.



### **Consistent conditioning with the Condimat BBFB**

Homogeneous malt moistening to increase elasticity and volume of husks during grinding.



### **Consistent, precise liquid flow control with MOZG**

Automatic, recipe-based water dosing with exact water quantities for optimal adjustment to the elasticity of the husks.



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# Powerful roller and hammer mills. For maximum flexibility.

Bühler offers flexible 4-roller mills for breweries and distilleries providing optimal grist composition for highest yields, shortest lautering times and best beer quality. For mash-filter systems and raw grain applications Bühler offers horizontal and vertical hammer mills to achieve the homogenous granulation your system needs.



### Precision 4-roller grist mill Smartgrist LEFA

Crushing of malt and barley over two passages for craft breweries up to 40 hl per brew.



### 4-roller mill Minicompact SE - MDZE

Combining safe and efficient crushing of malted or un-malted grains over two passages for craft and medium-sized breweries and distilleries up to 100 hl per brew.



### Powerful horizontal hammer mill DFZC

Special granulations in the fine range and top throughput.



### Energy-saving vertical hammer mill Vertica DFZK

Energy-saving with low aspiration needs in the impact-resistant milling chamber.



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# Grinding for lauter-tuns and mash-filters. Bühler sets the benchmark for grist quality.

Bühler offers an extensive portfolio of grinding systems for breweries and distilleries. All over the world, Bühler grist mills stand for the production of the best grist compositions, suitable for any lauter-tun system or, with husk separation, even for mash-filters.



**4-roller grist mill Maltomat III MDBA**

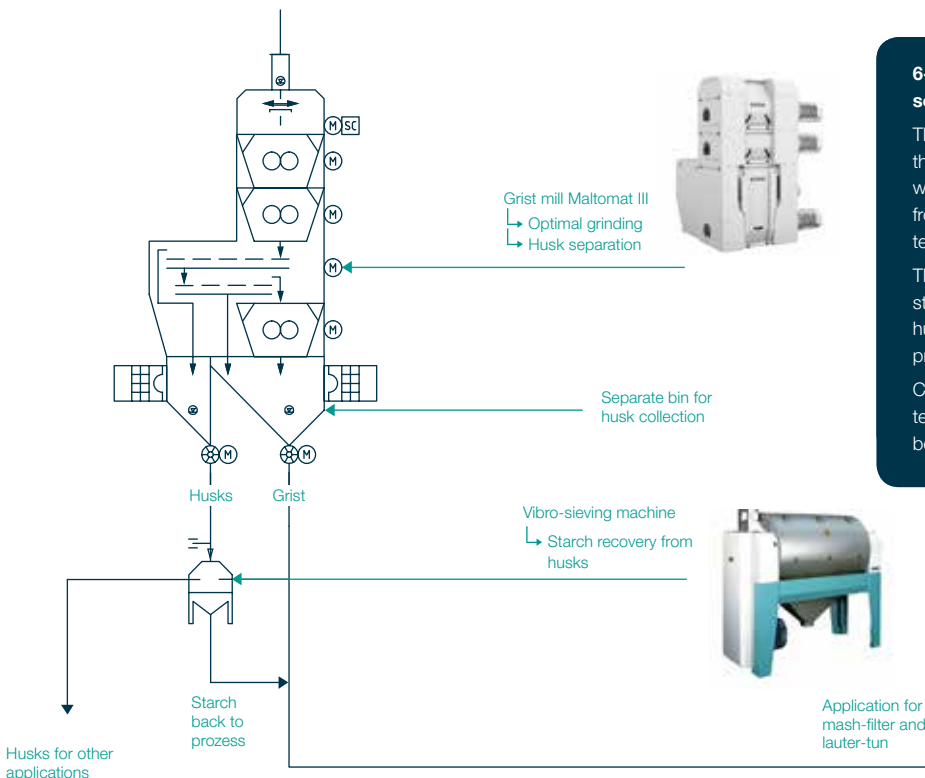
Gentle, optimal crushing of malted and un-malted grain over two passages. Adjustable installation size ranging from 4 - 16 t malt/h.



**6-roller grist mill Maltomat III MDBA**

Gentle, optimal crushing of malted and un-malted grains over three passages with sieve module to increase yield and reduce lautering times. Adjustable installation size ranging from 4 - 16 t malt/h.

## Boost your process with Dry-Dehusking (DDH) technology



### 6-roller grist mill Maltomat III with husk separation for mash-filter or lauter-tun

Thanks to flexibly adjustable husk separation, the Maltomat III can be used for mash-filters as well as for lauter-tuns. The husks are separated from the flour and grits and fed to the vibro sifter.

This makes efficient sifting and recovery of the starch possible as well as a separation of the husks. The husk separation reduces the overall product volume in the process.

Compared to conventional hammer milling technology, up to 50% of electric energy can be saved.





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# Bühler add-on elements. **Total solution from a single source.**

To complete a system, there are a number of add-on elements needed. Bühler offers a wide range from piping to dedusting systems and from decoupling elements to weighing and dosing solutions.



### **Hopper scale Tubex MSDN for precision weighing**

Precise continuous or discontinuous weighing for in-plant process control, from intake to silo discharge and even process weighing and microdosing.



### **Ergonomic discharge station MKSC for bags and big bags**

Hygienic, deposit-free emptying of different types of grains, malts and other ingredients.



### **Hygienic central vacuum system VacuumClean**

Maximum cleanliness thanks to fast, efficient cleaning at up to six different sites at the same time.



### **Filter technology with high safety standards**

A broad portfolio of dedusting components with hygienic design and high separation performance while complying with emission values, standards, and guidelines.



**BUHLER**



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# Process monitoring and optimization. **For reliable quality assurance.**

To support brewers and distillers in their daily work, Bühler offers a wide variety of options for monitoring the process from intake to the brewhouse, ensuring complete traceability.



#### **Process monitoring with the online particle size measurement unit MYTA**

Minimized yield losses thanks to the rapid detection of sieve breaks in hammer mills as well as the monitoring and optimization of particle size distribution in grist mills.



#### **Laboratory planisifter MLUA for reproducible grist analyses**

Simple, fast granulation measurement of grist according to EBC and MEBAK requirements.



#### **Universal laboratory mill DLFU for fast grinding**

Precision grinding of grains and malt for all common laboratory analyses, recognized by EBC, MEBAK, and IOB.



#### **Bühler Grain Technology Center**

Extensive machine fleet with the latest developments for experimentation, simulations and product development at industrial scale.



**BUHLER** rollDetect



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# Fast, competent customer service. Support throughout the service life.

Your satisfaction has top priority. That is why Bühler service personnel at local offices on site are ready to react quickly at all times. More than 1000 employees in over 100 countries attend to the needs and wishes of our customers, and ensure that the systems and machines are supported throughout their service life.



### Maximum system availability thanks to Bühler service specialists

Guaranteeing your production reliability and ensuring maximum system availability by regular inspection of your system by a Bühler service specialist.



### Maximum yield with Bühler technologists

Regular process analysis allows Bühler technologists to ensure that your machines and systems are giving top performance at all times, as well as meeting the latest requirements, for example for ATEX.



### rollDetect service for exact roll profile measurement

Consistent wear measurement of rolls for optimum planning of the next roll change.



### Regular roll service for optimum production

Competent Bühler service specialists for roll fluting at a service center close to you, installation of rolls, correct installation of bearings, and readjustment of the mill with subsequent grist analysis.





Hops processing



# Efficient hops refinement and dosing. **Extraction, pelletization, automatic dispensing.**

For hops processors, vibro sieving machines ensure the extraction of alpha acids at below-zero temperatures. The mixer is fed coarse material and alpha acids in precision quantities, to be processed into high-quality pellets in the next step.

For automated hops dosing, Bühler offers solutions for the conveying, weighing, and exact dispensing of hops into the wort kettle.



### **Vibro sieving machine MKZH for precision extraction**

High sifting performance for the separation of lupulin in multiple sifting steps at below-zero temperatures. Perfect for the production of hop pellets type 45.



### **Pellet presses for best pellet quality**

Top pellet quality for pellets of hops or spent grains.



### **Batch mixer Sanimix MRMA for top quality**

Homogeneous mixing of coarse material and alpha acids with the efficient Sanimix batch mixer.





Special grains

# Grain-specific solutions. From handling to crushing.

For the handling through crushing of special grains such as rice, corn, wheat, sorghum, rye, and other types, but also for starch or sugar, Bühler offers solutions tailored to your system. Surface treatment or sterilization increases product quality in distilleries, for example, by reducing mycotoxins, removing surface fusarium, or exposing the endosperm. For rice, surface treatment reduces the fat content.



### **Pearler BSPB for pearly grains**

Removal of husks and shells as well as dirt and fusarium for increased wort concentration and efficiency. For rice, surface treatment reduces the fat content.



### **Peeler MHXM for degermination of corn or peeling grains**

Reduction of contaminants such as bacteria, mycotoxins, and toxic heavy metals in raw grain. Removal of the germ bud from corn.



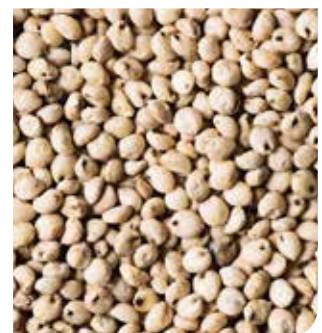
Borken rice



Maize (corn) grits



Wheat



Sorghum





GQ\_OB\_Brewing\_EN\_14222\_01

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