

Buhler
Grain Technology
Center.



From powdered to coarse-grained materials. Processing of grain and pulses.



Grain: Wheat, rice, maize



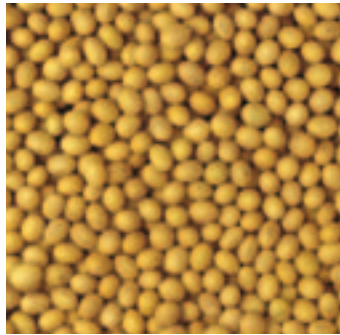
Flour, semolina



Wheat bran, Wheat germs



Flakes



Pulses: Soybeans, peas, beans



Pellets: Animal feed

The Buhler Grain Technology Center is the world's best-equipped and most renowned development and test center in the field of industrial processing of grain and pulses.

Its extensive, state-of-the-art range of equipment allows commercial-scale simulations of processes such as storage, unloading, conveying, weighing, feeding, separating, grinding, grading, blending & mixing, pelleting, flaking, bagging, hydrothermal treatment, and a large number of others. They are available together with the entire extensive know-how of the Buhler technologists for conducting tests and investigations, for example feasibility studies, product development, and performance tests.

A wide variety of industries take advantage of the Buhler Grain Technology Center:

- Grain logistics
- Flour milling (grain)
- Specialty milling (pulses)
- Feed production
- Seed cleaning
- Food production (soups, cereals, sugar, etc.)
- Processing of spices and herbs
- Production of additives and ingredients (baking aids, etc.)
- Minerals processing

Advantages of the Buhler Grain Technology Center:

- Customized development of new products and processes according to specific requirements
- Industrial-scale tests observing strict confidentiality
- Validation of the correct technology before you make a purchasing decision

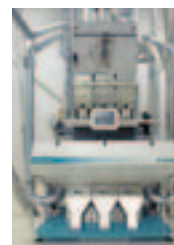


Grain Milling – process technology.

Tests, simulations, product development.

Cleaning / grading

Quality starts in the cleaning section. In order to utilize the valuable raw materials in the best possible way, we offer you solutions satisfying the most stringent demands. Test our SORTEX Z+. You are offered the opportunity to verify the added value that it generates without risk before making a purchasing decision.



Breaking / grinding / crushing

In our test facilities, we offer you different grinding systems ranging from roller mills and malt grist mills to hammer mills.



Separating / grading

The separation and grading of ground products is one of our core competencies. Regardless whether plansifters or purifiers are involved, we always have the suitable solution for you.



Pneumatic conveying and materials handling

We offer you various modules for simulating a wide variety of process operations such as:

- Storage
- Elevation
- Retrieval
- Circulation / turning-over



Weighing / measuring / proportioning

An extensive range of state-of-the-art scales and micro-feeders are available to you for testing high-accuracy proportioning of free-flowing to non-free-flowing materials.



Grain Milling – process technology. Solutions satisfying stringent requirements.

Filling / emptying

We have the solution you need for bagging your bulk materials. A complete bagging line is available to you in our Grain Technology Center:

- Empty-bag magazine
- Bagging carousel
- Automatic bag closing unit



Mixing / homogenizing

Our Speedmix mixers equipped with choppers enable you to produce absolutely homogeneous blends. Test the homogeneity and the short mixing and discharge times on our systems using your own specific product.



Flaking / crushing

The flaking roller mill with its top-mounted steam-conditioner is the heart of a flaking line. The system enables the simulation of the entire process, from conditioning and flaking to drying.



Hydrothermal processes / cooling / drying

With our FHT Flour Heat Treatment system and our steamers and fluid-bed dryers, we offer you the following processes for testing the upgrading of your products:

- Agglomeration
- Inactivation, denaturing
- Stabilization
- Heat treatment



Scouring / hulling / whitening / polishing

Our test facility offers you the possibility of complete simulation of grain cleaning and surface treatment:

- Scouring
- Hulling
- Whitening
- Polishing



Feed – process technology.

Tests, simulations, product development.

Size reduction

Efficient grinding on the basis of defined product specifications. Horizontal and vertical hammer mills as well as roller mills are available for grinding a wide variety of raw materials.



Mixing

For producing high-grade feed formulations, fast and homogeneous mixing of different raw materials is crucial. With our mixers, we offer you a wide variety of tests from A to Z.



Pelleting / compacting

Our test facility allows you to simulate cutting-edge partial or complete processes for making animal feed pellets. Targeted sub-processes are possible in the following areas:

- Size reduction
- Blending & mixing
- Conditioning
- Pelleting
- Drying
- Cooling



Drying / cooling

In order to optimize the storability and shelf life of feed pellets, coolers and dryers are available to you for conducting individual tests. We invite you to take advantage of our know-how.



Grain Handling – process technology. Tests, simulations, product development.

Rest-unloading

Test the latest Buhler technology for rest-unloading of ships: the Buhler rest-unloading screw called “sweeper”. Efficient rest-unloading is important in order to achieve short overall unloading times. The sweeper moves the bulk material to the vertical marine leg and clears the ship’s hold. This reduces unloading times and simplifies the rest-unloading process.



Selecting the optimal unloading technology

Our test facility allows vertical chain conveying by HL-SKT (high-capacity marine leg). Evaluate this technology using different grain varieties. Experience the benefits of material handling by chain conveyor: gentle movement and high throughput with low energy consumption.



Mechanical conveying / storage / retrieval

Conveying technology is key to smooth operation of bulk storage elevators (silos) or processing plants. From material reception (intake) to storage and in-plant conveying to product shipping, our broad portfolio of conveyors offers solutions for innumerable applications and materials. Convincing conveying technology.



Operator cab for ship unloaders

In a Portalink operator cab, you can track the unloading process on a display screen and operate the electronic controls. Experience the unloading operation first-hand. An optimal work environment and outstanding comfort for operating personnel.



