

Ultra modern

infrastructure.

Bühler Bengaluru (BBAN) Application & Training Center

The Application Center at BBAN is the state-of-the art utility center with facilities for conducting product trials, machine trials and to establish new findings and new operational parameters leading to newer applications. In addition, it is the finest destination for undergoing trainings for all levels like mill proprietors, mill managers and mill operators to enhance their skills and to acquire new operating techniques for profitable operation, maintenance and management of mills. The totally integrated application center provides hands-on working and operating with machines allowing to understand commercial scale intake, conveying, cleaning, weighing, grading, and milling of paddy and wheat.

The facilities at Application Center:

- Intake and cleaning section
- Paddy and rice processing
- Color sorting
- Atta milling
- Coffee beans roasting
- Spice grinding plant
- Pulses cleaning, grading, color sorting and grinding
- Analytical Lab Services
- Facility for training of customers' operators and managers

Cleaning and grading

The quality begins from cleaning section. Cleaning sections offers best possible solutions to utilise the valuable raw materials in the best possible way.

Weighing scales

Wide range of state-of-the art weighing scales are available for testing of free flowing to non-free flowing materials.

Mass Flow balancers are installed for composite blending of different grades of wheat before tempering and milling.

Color sorting

Color sorting offers the opportunity to verify the added values that it generates without risk before going in for any purchasing decision. Multi application of color sorting is established by customers based on the actual trials conducted with extensive range of commodities from food grains to dried vegetable and fruits to plastic chips.

Product trials

Conducting product trials at application center is like "seeing is believing" experience. Customers walking in with valuable commodities viz., coffee, pulses, and spices can conduct their own trials guided by expert technologist to find suitable process, technology and performance of the machines before making investment decisions. Thus, the combination of customers, Bühler technologists and experts conducting tests and investigations together leading to customized development of new products and process according to specific requirements observing strict confidentiality.

Plant control system

The Bühler's highly interfaceable and interactive plant control system WinCos is a state-of-the-art, powerful control concept tailored to the specific needs of the food processing industry. The basic system includes all the essential functionalities such as a process monitoring, powerful database system, user management, product and bin management, remote access, alarm and event logger, job entry format and control.

We provide comprehensive pilot trials in order to test your unique product ideas using a wide range of machinery. At Bühler, we are confident that our valued customers will benefit from our expertise, knowledge and test facilities.



The process logics for operating the plant in automatic, semi automatic and service mode, as well as an extensive process monitoring with the associated alarm handling are part of the basic system. Efficient remote diagnosis and maintenance, and also remote operating of the control system are possible via internet and other state of art IT-functionalities. Customer can have hands-on experience of latest WinCos control system at Application Center along with complete view of quality built glass paneled control panel revealing functioning of each and every component including variable frequency drives.

Production planning

The customer's business management system with processes information such as accounting, inventory management, orders and jobs, etc., always serve as the information basis for a company. Production data and jobs for the individual units can be transferred from and to WinCos system.

Production control

Each production unit is provided with a production control system. Its visualization system provides an overview of the production unit, and its data processing system allows this production unit to be planned and processed.

Mill visits

Visit to the mill gives different experiences. For customers intending for new installation, it is the ideal place to view and build their dream plants. For personnel undergoing product trials, it is fun and unforgettable experience to play with machines and to see the instant results.

Mill operators undergoing trainings get the most ideal operating atmosphere to set the machines and parameters for obtaining best possible results at optimum operating conditions.

Hygiene

For Bühler, hygiene of plants and machineries is part and parcel of business philosophy. The BBAN Application Center is a model example for the customer providing easy and simple mechanism to maintain their plants' all time hygiene.

Trainings

- Bühler is customer's partner and believes in updating its valued customer by providing latest process technology, machines operation and plant maintenance to get full benefit by efficient operation and maintenance of their plants and machineries.
- The target oriented training programs offers the best opportunity for mill proprietors, mill operating managers and operators to undergo training.
- Training and face to face discussions with machine and process experts provide an unique training experience
- A comprehensive training program comprising of processing theory, machine functionality and testing & observing instantly makes the understanding easy and memorable for participants.
- Plant control system is part and parcel of any training programme. The energy conservation and energy savings is the key factor and profitable way of operating any mill.

Bühler control system based on "Easy operation-higher productivity" concept with high end graphic user interface makes the plant operation & maintenance very exciting.



Rice mill.

Bühler India is a leading system provider for rice.

Rice is the staple food of almost half the world's population. More than a billion people are involved in its production and over 250 million farms produce 650 million tones of paddy each year. In creating processing and optical sorting solutions for such an essential commodity, Bühler is aware of its responsibilities to both people and to the environment.

Bühler provides complete solutions to the millers by supplying complete plant and equipments for Cleaning, Hulling, Whitening, Polishing and Grading sections including engineering, erection and commissioning services.

The Bühler facility at Bangalore manufactures the main rice machines along with the control systems, aspiration equipment and accessories.

We enable rice processors to achieve a consistently higher quality of finished product, a greater return on investment and more efficient use of labour and other factors of production. Automated processing systems, tailored to customers' exact needs, presents a compelling case for adoption.





The Application Center offers rice milling machinery starting from pre cleaning, cleaning, hulling, whitener, polisher, grading and finally the sorting of grains based on colour defects using colour sorter machine to offer rice grains which is of high quality & free from defects, foreign particles and even more.



Bean to cup.

Coffee center at Bühler Bengaluru proudly houses a fully operational Roasting.

Bühler has much more to offer to the Coffee Industry than just processing equipment. The state of the art application center proudly houses a fully operational Coffee Roasting.

The Coffee Center is equipped with instruments for moisture testing, colour testing, sieve analysis.

This state of the art facility offers a platform to universities, research labs, customers and industry at large for various activities under one roof –

- Green Coffee cleaning & grading trials
- Roasting trials
- Product research & development
- Sensory & physical analysis
- Coffee courses

We invite you to our Coffee Center at Bengaluru to experience the facilities. Bühler team would be pleased to host you.





Bühler is coffee industry's competent partner in consulting, technology, development, project management and customer service. We offer optimised solutions spanning the entire range of industrial coffee processing.



Atta mill.

Hygienic Atta for good health and happiness.

Bühler's pioneering process of Atta milling combines the tradition of hygienic processing and safe milling practices. It enables customers to produce Atta flour of best quality, while using less space and energy. As your partner, we look forward to provide sustainable solution for your Atta requirements.

Benefits

- Reduction in unit power consumption (Energy saving)
- More capacity (compact design, less space per ton grinding)
- Homogeneous and consistent product quality over time
- Better hygienic process
- Better operational performance
- Easy maintenance
- Easy to change product specification (quick and consistent)
- Flexibility in Atta quality
- No stone shavings

Advantages of Bühler's whole wheat Atta process

Top hygiene

A stone-less grinding process and easy to clean equipment guarantees a hygienic and safe end product.

Flexible process

All major parameter, like (starch damage, water absorption, granulation, end product moisture, aroma and taste) can be varied to your requirements.**

Reliable and easy maintenance

24/7 up-time. Long lasting equipment with less maintenance.

Homogeneity and consistency

Bühler's Atta process provides homogenous and consistent quality of Atta flour. After powercuts, an easy and steady restart ensures high consistency.

State-of-the-art application center at Bühler Bengaluru. Atta mill is ready for customer trials.



- *) Bühler's Atta was analysed by Central Food Technological Research Institute (cftri) in Mysore. The overall quality of Bühler's Atta scored very well.
- **) depending on wheat quality.

Bühler's solutions provides you the whole chain – from grain intake, cleaning, milling with the new HC Power Mill, to bagging and quality measurement – for the Atta process. Atta Mill is ready for your trials in Bengaluru state-of-the-art Application Center.



Advantages

- Compact footprint
- High process flexibility & consistent quality
- Reduced operating costs

- Reduced energy consumption
- Maximum food safety with stone-less grinding
- Easy operation & maintenance

Features, Advantages and Benefits

Features	Advantages	Benefits
Energy efficient	Reduced energy consumption	Savings on energy ~10%
Innovative recirculating grinding system	Higher yield	Yield gain of 1-1.5%
Processing flexibility	Production of different particle sized-flours & removal bran (0.5-5%)	Consistent quality
Robust design	Less wear and tear of parts	Reduced operating costs
Wear-resistant steel grinding rolls	Consistent grinding	Food safety with stone-less grinding
PLC based automatic plant control	One press to start up complete plant	Easy operation

Bühler

Spice grinding.

Breaking new grounds in spice processing through innovative, high-capacity, engineered solutions for maximum profitability.

Spices add the uniqueness in flavour and colour to Indian cuisine which is famous across the world. Spices, grown and processed in India, are high in demand globally for their exceptional essence and superior quality. A major quantity of these spices are processed in Bühler equipment and plants which offers gentle handling & hygienic processing that preserve the natural goodness of the aromatic seeds.

Bühler offers a range of processing solutions that meet the standards of the mass domestic market as well as high valued exports.

Located in Buhler Bengaluru, the new spice application lab stretches over four floors and houses a fully automated setup for spice grinding product demonstration.

In addition, the mill application center also incorporates a cleaning system, shows off Bühler designed aspiration systems - offering customers the complete scope for spice processing under one roof.



Key benefits

- Fully automated, complete spice grinding mill available for product demonstration and trials.
- A wide range of applications: including whole red chillies, cumin, coriander, fennel and many other.
- Real-time results: Customers are able to check on granulation colour and aroma.
- Cleaning systems, units and optical sorting stations are available to offer customers a complete scope for spice processing.









Bühler understands the many variants and complexities of spice processing and the need to competitively deliver a product that not only meets global food safety standard but the high standards of consumers too.

Laghima.

Innovative Compact Besan Solution from Bühler

Bühler brings innovation in Besan

Bühler – A leader in pluse processing solutions, presents an innovative solution for producing Besan & flour from a range of pulses. The Bühler Besan Mill is designed to deliver high capacity, increase productivity and plant efficiency while providing the flexibility of producing a range of Besan grades from the same mill.



Key Features of Bühler Besan Mill

- High Capacity, Low footprint
- Online granulation control
- Easy Operation & Maintenance
- Energy efficient
- High on hygiene & sanitation
- Modular design with 100% supply

Features, Advantages and Benefits

Features	Advantages	Benefits
Energy efficient	Reduced energy consumption	Savings on energy ~20-24%
Innovative recirculating grinding system	Higher yield	Yield gain of ~1.0%
Processing flexibility	Production of different particle sized flours or different grades	Consistent quality
Modular design with 100% supply	Minimized wear and tear parts	Reduced operating costs
PLC based automatic plant control	One button to start up complete plant	Easy operation
Compact Footprint	Consumes very less footprint	Optimized building area and cost
24X7 reliable operation	More machine availability	Less machine downtime

Your Partner for

Analyses, Consulting & Research.



The Analytics laboratory offers a broad range of analyses for innovative process.

Analytical Laboratory.

Bühler India has an analytical competence center, with modern infrastructure and sophisticated instruments for analysing the Rice Quality at all stages of processing. A broad range of analytical methods are being used by a team of food scientists and engineers to provide solutions that help in improving the rice processing techniques.

Wafer Application Center.

Bühler India has established a new application center for Wafers and Creams in the Bengaluru facility. This lab is equipped with imported equipment and analytical facilities to provide a one-stop solution for developing new recipes. We have qualified and experienced food technologists, who can guide you through the product and recipe development process - thus enabling customers to shorten their production startup time and launch new and innovative products faster into the market.

Grain and Flour Competence Center.

The experts of the Grain and Flour Competence Center at Bühler India offer to the milling customers along with grain processing expertise, innovative services that support the milling customers in the production of a consistent ②our quality for target applications like baked goods.

The Grain and Flour Competence Center is equipped with the most modern analytical devices, based on International standard methods (ICC and AACC). The experts at the Grain and Flour Competence Center analyze the grain and flour and provide a full report.

We offer analytical services for;

- Paddy
- Rice
- Rice Flour
- Rice Bran

The core competencies include;

- Physical Analysis
- Milling and Cooking Quality
- Chemical Analysis
- Microscopy

Services at a glance.

Optimization of product quality, reliability and throughput.

- Optimization of energy consumption and emission output.
- Process analysis and trials with your unique products and parameters.
- Assistance in choosing the best manufacturing process for your products including reliable data for your future production.

Added value for the customer.

The modern pilot plant offer tailor-made services for your industry. Experienced research teams test and develop your processes and products not only on laboratory equipment, but also on industrial machines under real conditions.



Our test center in Bengaluru is available for your use. We would be delighted to help you find the ideal manufacturing processes for your products, and look forward to answering any questions you may have.

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