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Your grain is our passion.
Business Unit Grain Logistics.

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Business Unit Grain Logistics.
Your grain is our passion.

When it comes to products and complete solutions along the entire food value-added chain, Bühler is the global technology partner. The Grain Logistics business unit covers a full spectrum of business areas, from the reception of agricultural products all the way through to the processing industries. Professional grain management is the core competency of Bühler Grain Logistics.

From grain collection to final processing.
For Grain Logistics, everything starts once crops have been harvested. After the combine harvesters have done their job, grains and oilseed are brought to silo plants for storage. Two of the fundamental elements of initial storage are cleaning and, in many cases, drying of the grains prior to storage. In an age in which the demand for grain is steadily increasing, Bühler’s know-how in the field of post-harvest technology has become essential. Whether a grain silo installations or grain terminal is required, Bühler Grain Logistics provides a complete service portfolio from consultation to customer service. The scope of delivery includes cleaning and grading systems developed in-house, energy-saving continuous flow dryers developed especially for use with grains, as well as a full range of conveying and dedusting systems. With its knowledge and services, Grain Logistics sees to it that post-harvest losses, which are still occurring at an immense rate globally, are further reduced and that fewer commodities go to waste. Ship and vessel loading and unloading installations supplied by Bühler enable shipping from large-scale silo plants in the growing regions to consumers worldwide. Technology for temporary storage or direct loading onto barge, rail or truck for onward transport is also supplied by Grain Logistics. In addition to grain management, the installation of malting plants is a further core competency of Grain Logistics. The company is the world’s technology leader in this field. Grain Logistics offers service from A to Z. From planning, construction, manufacturing, delivery and start-up through to on-site training of personnel and dependable customer services. Together with Bühler’s other business units, Grain Logistics provides Bühler customers with solutions for the entire value-added chain – from the field to the finished food product.

Center of Competence in Beilngries, Germany.
The Grain Logistics business unit has its Center of Competence in Beilngries, located north of Munich, Germany. In 2010, Bühler acquired the German plant supplier Schmidt-Seeger, which is based here. Thus, the company significantly broadened its competency in the fields of conveying, cleaning, drying, dedusting and storage with a particular focus in the area of grain collection. Customers are served by Bühler’s worldwide sales organization. The business unit, which operates additional sites in Döbeln near Dresden, Uzwil, Madrid, Delhi and Changzhou, China, has around 700 employees.
Grain Logistics: Sustainable solutions throughout the food value-added chain.

Bühler Grain Logistics offers package solutions, machinery and components throughout the entire food value-added chain – from an agricultural product’s reception through to the final stages of processing. Whether it’s a silo installation for harvesting purposes, a plant for grain trade or individually tailored malting systems the customer needs: Bühler is a competent global partner providing individualized on-site customer service from conception to startup. Safety, dependability and sustainability thereby form the basis of a trustful customer relationship.

A reliable partner for perfectly coordinated package solutions. Bühler’s know-how covers all process steps in the food value-added chain and results in perfect package solutions. As a division of Bühler, Grain Logistics offers products and complete solutions from an agricultural product’s reception and storage plant through to processing. Choosing a single partner company greatly reduces the time and effort a customer must devote to communications and interface coordination. In the process, absolute dependability with regard to technical functionality and on-time realization is guaranteed.

Innovative technology – founded on more than a century of experience. Over 150 years of experience in the field of grain management carries enormous advantages in terms of knowledge. This knowledge edge allows Bühler Grain Logistics to provide its customers with highly competent consulting on production processes and plants, and also offer innovative solutions that fulfill the latest technological and qualitative standards.

A dependable partner for long-term support. 100% reliable delivery of durable products and solutions is a key factor in minimizing downtimes. The long-term support provided even after startup of operations is another advantage Bühler Grain Logistics customers enjoy.

Comprehensive after-sales service ensures a high level of operational reliability. A structured after-sales service provides customers with fast, straightforward support throughout all plant operations. Bühler Grain Logistics not only guarantees prompt availability of replacement parts and the compatibility of all the components it supplies, but also offers permanent, ongoing support in process optimization. Thus, the customer is assured of a high level of operational reliability and low operational costs.

Solutions throughout the entire food value-added chain – from an agricultural product’s reception through to the final stages of processing.

Collection Points

Terminals (inland and ports)

Grain silo installations

Inland terminal

Export terminal

Import terminal

Processing industries

Matting plants

Rice processing

Milling

Feed milling

Bühler Grain Logistics
Collection Points: Customized solutions for grain reception and storage.

A reliable partner for successful project realization.
Bühler Grain Logistics has already been responsible for a great many successfully realized grain collection solutions all over the world. Founded on its comprehensive experience and profound expert knowledge, the company offers a high degree of consulting competence and security – for the reliable completion of any project.

Competence from one source.
Bühler Grain Logistics possesses the know-how to handle the entire process: From analysis and conception to production and installation, through to after-sales service, all project stages are covered. The customer benefits from individualized package solutions from a single source. The time and effort devoted to interface coordination and communication is thus reduced to a minimum. At the same time, reliability with regard to technical functionality and on-time realization is guaranteed.

Custom-tailored solutions thanks to modular design.
Reliance on modular design enables Bühler Grain Logistics to realize grain reception and storage solutions to meet any requirements – from small silo installations to large-scale grain storage facilities. In the process, both individual needs and economic aspects are taken into account. This leads to tailor-made and highly customer-friendly solutions.

Quality and efficiency through proven technology.
Founded on dependable and time-tested technology, Bühler Grain Logistics manufactures all of its core machinery – at the highest quality, of course. Besides the resulting improvement in the quality of the stored product, Bühler machinery also reduces maintenance requirements and offers a high degree of efficiency.
Project description
The task was to create a complete storage management facility. To that end, a flat storage warehouse was built capable of storing up to 55,000 metric tons of grain. From conveying to ventilation, cooling and temperature measurement, the facility is equipped with all the functions necessary for ensuring optimum storage at the highest level. In addition, Bühler Grain Logistics also integrated modern solutions for grain drying and ship loading into the storage complex.

Project data
- Storage capacity: 55,000 t (grain) or 30,000 t (fertilizer)
- Receiving capacity (truck): 2 x 200 t/h
- Conveying capacity: 200 t/h (grain)
- Dryer capacity: 60 t/h (grain)
- Loading capacity (ship): 250 t/h
MZIKK, Dnjepropetrowsk (Ukraine).

Project description
Ukrainian clients MZIKK wanted a silo plant for sunflower and other raw materials built on a greenfield site. The constructed facility now handles a throughput of 120 t/h and offers a storage volume of approximately 80,000 m³ spread over 4 round steel silos. All process units, from receiving to cleaning, drying, conveying and storage through to the loading station, were delivered exclusively by Bühler Grain Logistics.

Project data
• Storage capacity: 4 x 20,000 m³ = 80,000 m³
• Receiving capacity (truck): 2 x 60 t/h (sunflower)
• Conveying capacity: 120 t/h
• Cleaning capacity: 120 t/h
• Dryer capacity: 36 t/h (sunflower)

Jurahafen GmbH, Mühlhausen (Germany).

Project description
Jurahafen GmbH commissioned Bühler Grain Logistics to construct a modern reception and storage solution for grain and canola. The facility offers a total storage capacity of 11,800 metric tons and also includes a state-of-the-art intake and loading station with separation bins, continuous scale and cleaning machines. The maximum conveying capacity is 120 t/h. Mobile ship loading and unloading makes waterborne feeding and discharge conveying possible.

Project data
• Storage capacity (silo): 8 x 1,300 t = 10,400 t
• Storage capacity (silo): 4 x 300 t = 1,200 t
• Processing capacity (bins): 5 x 40 t = 200 t
• Conveying capacity: 120 t/h
• Cleaning capacity: 160 t/h (wheat), 120 t/h (canola)
Bühler Grain Logistics Terminals is the ideal partner when it comes to reliable solutions in the area of grain handling and storage. The company’s wide range of offerings includes ship loading and unloading solutions, conveying systems and silos as well as storage equipment. The specially conceived and technologically innovative individual and package solutions fulfill the highest demands for quality and ensure faster and more efficient grain handling.

Solutions from a single source.
Bühler Grain Logistics accompanies projects from conception to startup, offering its entire product portfolio every step of the way – for realizing comprehensive solutions from a single source. The broad range of products encompasses loading and unloading systems as well as transport systems and solutions for storing grain and oilseed. With Bühler, customers can count on top results with regard to technical functionality and on-time realization of their projects.

High productivity thanks to premium technology and quality.
Optimized technology, high quality standards and the worldwide presence of Bühler Grain Logistics guarantee a dependable mode of operation and high operational uptime. Bühler’s ship loading and unloading and silo systems offer both high productivity and low maintenance requirements.

Efficiency through profound knowledge.
The profound know-how of Bühler experts enables them to recognize possible savings opportunities in the earliest planning phases of a terminal solution. By employing extremely energy-efficient machinery and components, processes can be made more sustainable and environmentally-friendly and CO₂ emissions can be reduced over the long term. Low operational costs are yet another benefit to the customer.

High standards of quality and food safety.
Bühler Grain Logistics has extensive experience in the conception and realization of solutions along the entire food value-added chain. In addition to options for the traceability of raw goods, high quality standards are guaranteed with all process chain machinery. Bühler customers may rest assured that all installations fulfill the latest food safety regulations.
South African Bulk Terminals Ltd. (SABT), Durban (South Africa).

Project description
A higher unloading capacity and shorter berthing times for ships – these were the parameters set forth by the client. Bühler Grain Logistics developed an ideal solution on this basis: The Portalink 800 is a high-performance ship unloading unit with a maximum transfer capacity of 850 t/h. Several video cameras at various locations allow the machine operator to keep an eye on the ship holds, boom and conveyor bridge from the convenience of his cab. The new Portalink is employed in Durban harbor and provides significantly improved unloading capacities.

Project data
- Conveying capacity: 850 t/h (wheat)
- Boom length: 27 m
- Rail track width: 20 m
- Ship capacity: 80,000 DWT
Project description
The Brazilian food products concern was looking for a turn-key production plant consisting of a harbor terminal, wheat mill, pasta factory and biscuit factory. The complex built by Bühler Grain Logistics incorporates storage silos capable of storing up to 80,000 metric tons of wheat. The Portalino ship unloading unit ensures efficient product intake; loading is carried out with a mobile ship loading unit. The plant is also equipped with the WinCos plant control system, which provides gentle and efficient handling by controlling individual process steps. The system monitors bin inventory and also guarantees the traceability of the product.

Project data
- Storage capacity (silo): 80,000 t (wheat)
- Storage capacity (flat storage): 100,000 t
- Intake capacity: 300 t/h (wheat) or 100 t/h (soybean)
- Loading capacity: 2,000 t/h

Project description
ARASCO is an industrial feed producer with its own ship unloading facilities in Dammam harbor. The company processes raw materials that are imported from throughout the world. Thus, a high-capacity facility with efficient machinery is required. As main contractor and project supervisor, Bühler erected storage silos with a volume of 80,000 metric tons as well as a modern feed mill. Bühler also supplied the customer with a Portalink ship unloading unit which increased receiving capacity to up to 1,000 t/h.

Project data
- Storage capacity: 80,000 t
- Receiving capacity (truck): 300 t/h
- Receiving capacity (ship): 1,000 t/h
- Conveying capacity: 300 t/h or 1,000 t/h
- Loading capacity: 300 t/h
Malting:
Customer-oriented solutions for malting plants.

Innovation, quality and safety are standards that are inextricably connected with the products offered by Bühler Grain Logistics Malting. The service portfolio encompasses the building, expansion and modernization of malting plants, including silo facilities. Individual and package solutions are developed and realized on the basis of decades of experience and comprehensive know-how. The specific needs of the customer always come first in the conception of a plant.

Minimal costs and maintenance thanks to optimized technology.
Bühler Grain Logistics relies on innovative technical solutions like ECO-Steep, R-Clean and Washing Screw. The use of optimized technology benefits the customer through a reduction in operational costs. Automatic cleaning and hygienic design allow the customer to adhere to the highest standards of quality.

Individualized, flexible, long-lasting – founded on professional competence.
Individualized package solutions are highly flexible and can be adapted to the needs and desires of each and every customer. From planning to startup, Bühler Grain Logistics is a responsible partner who can be relied upon to deliver an installation of outstanding quality and long life.

Automated processes for consistent quality and reliable operation.
Bühler plants are characterized by a high level of operational reliability and employment of the company’s own logistics and automation solutions – e.g. WinCoS. Production data is represented in an operator-friendly manner and is easily traceable. Thus, excellent and reproducible product quality is certain at all times.
Project description

Bairds Malt operates five malting plants throughout Great Britain and produces 250,000 metric tons of malt annually for beer and whiskey production. In order to meet increasing demand, the company greatly expanded its capacities with a new construction project in Arbroath. In cooperation with Bühler Grain Logistics, a modern malting facility with highly sophisticated plant units was built in which 57,000 metric tons of distilling malt are now produced annually. With its innovative components, Bühler was able to satisfy the customer’s stringent demands with regard to technology, sanitation, construction details and design.

Project data

• Annual production: 57,000 t (malt)
• Batch size: 380 t
• 1 washing screw
• 1 flat-bottom steep tank ECO-Steep (Ø 21 m)
• 2 germination boxes (Ø 28 m)
• 1 kiln (Ø 32 m)
Project description
High storage capacities and efficient loading and unloading are defining characteristics of the Holland Malt malting plant which was equipped by Bühler Grain Logistics, e.g. with state-of-the-art conveying technology. The total storage capacity of 132,000 m³ is spread across 12 flat storage bins and 35 elevated storage units. Materials delivered by ship or truck are received by high-performance unloading equipment, then conveyed onward and processed accordingly. Upon completion of processing, the products can be loaded onto truck or ship for further transport.

Project data
• Storage capacity (flat): 94,000 m³
• Storage capacity (elevated): 38,000 m³
• Receiving capacity (ship, truck): 200 t/h
• Conveying capacity: 200 t/h
• Loading capacity (ship): 180 t/h
• Loading capacity (truck): 60 t/h

Viking Malt, Halmstadt (Sweden).

Project description
Viking Malt is one of Europe’s biggest producers of malt. In order to expand and optimize its production, the company commissioned a new facility for intelligent and efficient malt management. The comprehensive solution developed by Bühler Grain Logistics incorporates all process steps, from receiving of the barley through to loading of the malt end-product. In addition to two tower malthouses, Bühler implemented a modern concept for the cleaning and storage of 20,000 metric tons of barley and for the cleaning, storage and loading of the produced malt.

Project data
• Silo facility (h = 75 m)
• Storage capacity (silo): 20,000 t (barley)
• 2 x 5 cylindro-conical steep tanks
• 6 germination boxes (Ø 23.18 m)
• 3 kilns (Ø 23.18 m)
Grain Components: Top-quality components and machinery for grain management.

Bühler Grain Logistics Components is dedicated to providing a broad selection of components and machinery for grain management. Competence and long-standing experience form the foundation of a modular product portfolio that is always oriented to the needs of customers. The company offers solutions in areas ranging from conveying, cleaning, drying and cooling to grading and storage.

**Rugged, low-maintenance design for high operational reliability.**

The emphasis on wear-resistant materials and rugged design gives Bühler machinery maximum reliability – throughout its lifetime. Easy replacement of wearing parts contributes to minimizing disruption due to maintenance and increasing operational uptime.

**Hygienic design and gentle technology.**

Bühler Grain Logistics’ dedication to excellent hygiene can be seen in a component and interface design that is optimized for purity and self-cleaning, food-safe pigments and surfaces, dust-tight and stainless designs and easy access for machine cleaning. Machine residues and product carry-over are prevented – ensuring the purity of the processed material from input to output. Additionally, proven technology specially geared to each specific application guarantees that materials are handled in the most gentle manner possible.

**Modular system enables flexible configuration.**

Bühler Grain Logistics conveying technology, in particular, is comprised of standardized sub-assemblies. The modular system enables flexible installation and individualized configuration of the machinery. Complementing this with e.g. cleaning equipment allows the customer to achieve maximum value creation from collection to processing.
Altdorfer Mühle GmbH, Altdorf (Germany).

Project description
The goal of this project was to achieve greater independence from extreme fluctuation in the prices of raw materials. To that end, a new flat storage warehouse was built about 60 meters from the existing mill. The new storage facility is divided into 4 storage bins with a reception hopper and two loadout silos. An ASU air cleaner is responsible for pre-cleaning at the flat storage warehouse. A distribution/cleaning conveyor is employed for distributing the raw goods. A double-decker trough chain conveyor roughly 65 meters in length connects the mill with the new storage facility. Main cleaning is carried out by the existing cleaning system at the main mill building.

Project data
- Total storage capacity: 2,000 t
- Receiving capacity: 120 t/h

ZAO Belstar-Agro, Tokarewka (Russia).

Project description
The industrial manufacturer of bakery products, flour and confectionery goods sought to significantly improve the overall capacity of its production facilities with a modern feed mill. The silo plant built by Bühler encompasses 16 storage silos capable of storing up to 100,000 metric tons of grain. The new plant located in Tokarevka, Russia also includes receiving and loading stations for truck and rail. With two lines for receiving, cleaning and storage as well as two MSDT 850 scales with a capacity of 200 t/h, Bühler Grain Logistics has installed a high-performance facility that completely fulfills the high demands of the commissioning company.

Project data
- Storage capacity: 100,000 t
- Conveying capacity: 200 t/h
- Cleaning capacity: 2 x 200 t/h
- Drying capacity: 2 x 108 t/h
Customer Service: Maximum operational uptime thanks to Bühler Customer Service.

Bühler Customer Service is the ideal partner in every aspect of training, maintenance and service as well as retrofit solutions and plant optimization. Customer service doesn’t end with the startup of operations, but continues throughout the lifetime of the facility. In order to ensure quality and functionality for the longest term possible, Bühler offers its customers a comprehensive service package that includes optimization, maintenance and damage prevention measures as well as service management systems and qualified training.

Bühler Original Spare Parts guarantee quality. The use of original Bühler Spare and Replacement Parts guarantees the constant high performance of a facility over the long term. Bühler components are optimally fitted to a given machine or installation. This eliminates interruptions caused by using unsuitable replacement parts made by outside manufacturers.

Plant optimization via comprehensive retrofit solutions. Bühler offers innovative retrofit packages for machines and installations. The improvements in productivity and quality which can be obtained as a result represent an alternative to expensive new purchases. The customer profits through longer machine lifetime, improved efficiency and a reduction in operating costs.

Preventive maintenance concepts help avoid downtimes. Preventive maintenance concepts enable Bühler to identify the weak points of a machine or installation at an early stage. By carrying out a qualified analysis and consultation, effective counter-measures can be quickly implemented. Regularly scheduled service visits by Bühler also maximize the process reliability and performance of the installation. High costs resulting from downtimes are avoided while the operational dependability and lifetime of the machinery are increased significantly.

Efficient plant operation with Bühler training programs. An extensive range of educational and training courses is an integral part of Bühler’s service portfolio. In standardized, customer-specific skill enhancement courses, customers receive practice-oriented training – either at a Bühler training facility or on-site. Experience shows: Having well-trained personnel reduces the risk of disrupted production as a result of operator error. Intelligent controlling of plant machinery also leads to improved efficiency and higher product throughput.