



**New Bühler silo
system in Port
Sudan doubles ship
unloading capacity.**
Wheata Industrial
Co. LTD,
Khartoum, Sudan.

Wheata Industrial has a long-standing relationship with Bühler. Since the first silo system was delivered in 2001, Bühler has helped the company to fulfil its role in supplying the region with high quality wheat products.

Over nearly two decades Bühler has significantly extended the company's wheat logistics capacities. The strong relationship continues: In the latest project Bühler installed a new silo system in Port Sudan including a larger ship unloader doubling unloading capacity. Apart from lowering cost, the system provides better hygiene and utmost reliability.

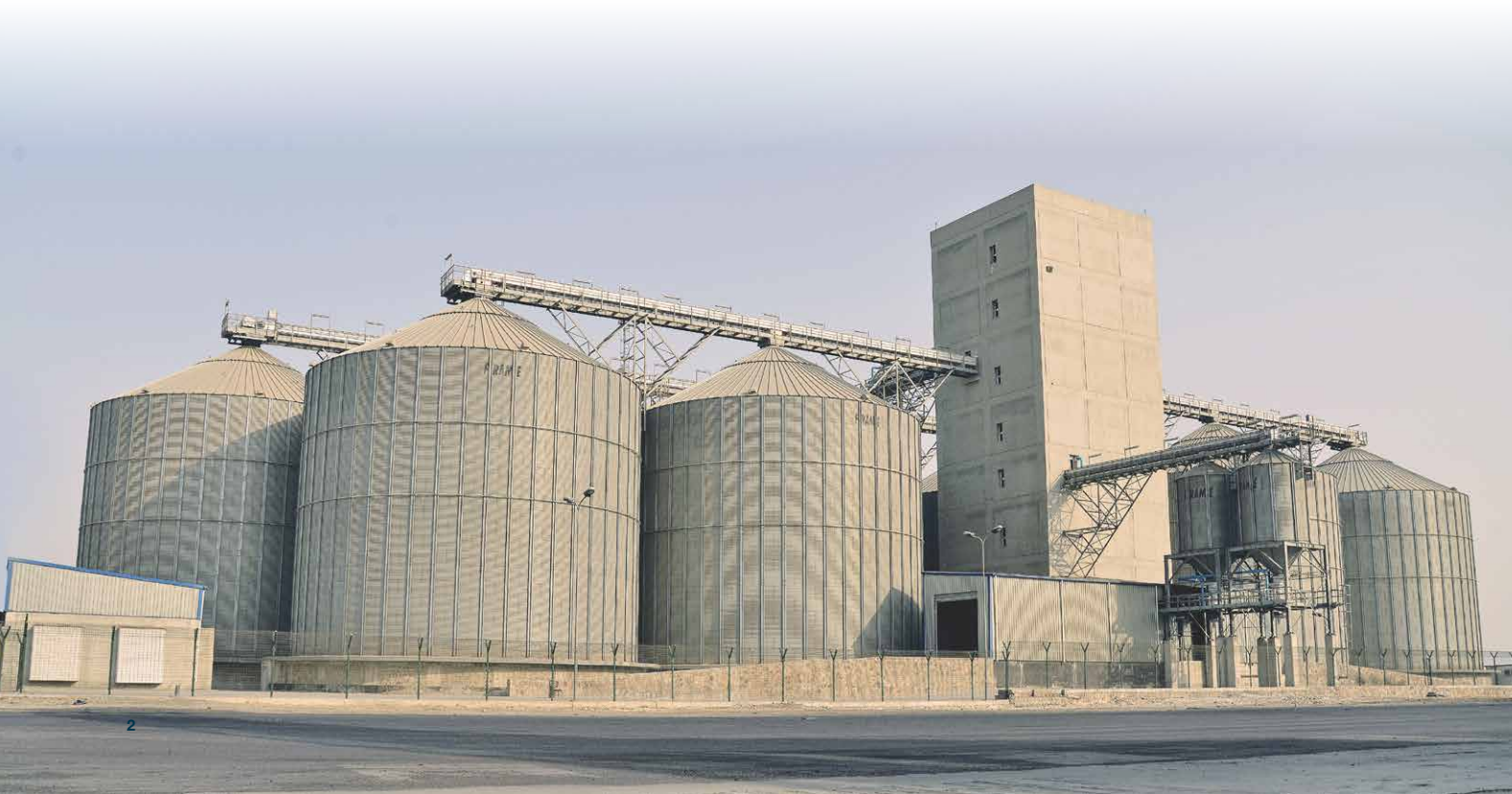
Wheata Industrial is part of the Araak Group. With 2,500 employees, it is one of the largest and most successful businesses in Sudan. The privately-owned conglomerate consists of a wide range of businesses in five strategic divisions including flour milling, construction and PET recycling. It also operates a bottling plant for Pepsi Cola and associated brands. Wheata, which represents a major part of the group, operates one of the largest flour mills in the country and is currently undergoing massive expansion.

The company thrives on quality and puts every effort into maintaining the highest standards in delivering wheat flour, a major food commodity in the region. In order to achieve this, Wheata relies on Bühler's proven track record in providing state-of-the-art systems and its excellent project management that guarantees delivery on time and within budget.



The strong relationship with Bühler began in 2001 when Bühler delivered the first silo system including a mechanical ship unloader in Port Sudan. The same year saw the successful delivery of the first Bühler mill in Khartoum. The mill's capacity was extended in 2004 and again in 2014.

Wheata plays a major role in achieving food security in Sudan, on a national as well as a household level. As the country depends on imports from global producers, shipped in from abroad, swift turn around and high storage capacities at the port are vital to save costs and maintain adequate and plannable supply of wheat. Imported wheat arrives in Port Sudan and is subsequently delivered over 840 kilometres to the company's mills in Khartoum requiring about 1,750 truck journeys.



A one-stop shop.

Convinced by Bühler's performance over the years and, in particular, its proven energy-saving chain conveyor technology, Wheata has recently ordered a new high capacity silo facility for its operations in Port Sudan. It was not only Bühler's ability to provide every part of the solution from a single source that convinced Wheata, but also the training Bühler provides its staff in conjunction with the installation of plants and the ongoing service.

In order to meet Wheata's current demands, it required the installation of a larger mechanical ship unloader. With 600t/h the new unloader PORTALINK 600/70RK doubled the capacity of the facility. In addition, a completely new greenfield silo plant with a vast storage capacity of 61,500t was built. The wheat is transported from the unloader via fixed docking points at the pier through an underground tunnel to the roundhouse. Here the wheat is cleaned and weighed before it is stored in the silo.

Wheata also opted for Bühler's Pro Plant Service Management system, which provides reliable customer service and manages storage and use of spare parts preventing costly unplanned downtime.

The new high capacity system, which has recently been put into operation, provides maximum reliability and efficiency, reliable automation, and high standards of food hygiene and health and safety.

**“ The New Bühler Port Terminal has fully met
WHEATA's operational requirements.
By utilizing customized engineering
solutions to suit our specific requirements.**



Andreas Thomsen, Plant Manager,
Wheata Industrial Co. LTD

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The customer at a glance.

- Operates one of the largest wheat mills in the region
- Part of the prominent Araak Group with 2,500 employees active in 5 strategic divisions
- 75 distribution centres across the country for products ranging from traditional bread flour to special brand



Excellent project management.

Bühler's project management ability was a major factor in the success of the project. The project demonstrated the benefits gained from working in close cooperation with the customer at every stage, from initial planning to execution. This, along with staff training and ongoing support, was the decisive factor in delivering the plant in time and within budget, while maintaining operations.

Close teamwork between Bühler and Wheata ensured that the project progressed smoothly throughout. The engineering of the ship unloader was carried out at Bühler, Switzerland. Its steel construction was manufactured in Dubai, and it was assembled on site in Port Sudan in close collaboration with Wheat personnel. Once the project was successfully completed, plant operators were given comprehensive training by Bühler's service team, guaranteeing reliable ongoing operations.

Thanks to Bühler's expertise, the excellent partnership over the years, as well as the outstanding collaboration of everyone involved, Wheata is already planning the next silo extension with Bühler.

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Our Port Project is a proper combination between the creative design and Bühler reliable technology which they contribute to get the high capacity with the ease of use.

Abubakar Akasha, Deputy Plant Manager,
Wheata Industrial Co. LTD

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The project at a glance

Storage facility

	Type	Capacity / performance
Storage	10 corrugated metal silos	61,500 t
Intake	1x truck	600 t/h
Processing	1 drum sieve RCDA 600	600 t/h
Conveying technology	4 belt conveyors 6 belt conveyors 5 chain conveyors 2 chain conveyors 2 elevators 1 elevator	600 t/h 300 t/h 600 t/h 300 t/h 600 t/h 300 t/h
Dedusting technology	3 round filters	189 m³/min 173 m³/min 94 m³/min
Weighing	MSDT 2400 MSDT 1400	600 t/h 300 t/h
Loading	2x truck	300 t/h

Unloader Portalink 600/70 TK

	Capacity / performance
Unloading capacity	600 t/h
Vessel size	Up to 70,000 DWT
Weight	314 t
Special	Quay conveyor in underground tunnel

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