

KANALSYSTEM™

High unloading capacity
High quality aeration
Safety




TORNUM®



KANALSYSTEM™

– The original Dual Function Aeration and Unloading System

Controlling the temperature in stored grain is of utmost importance. To do this a well-designed high quality aeration system is required. Efficient high capacity unloading is yet another big issue when storing grain in any type of grain storage. The patented TORNUM KANALSYSTEM™ comes with the unique dual function – High quality aeration and High unloading capacity using air only!

Advantages

- Safety.
- Reduced labor cost – no personnel entering unfavorable environment during unloading.
- No sweep augers or other mechanics inside the grain structure.
- Self-cleaning.
- High quality aeration – all grain kernels exposed to the air flow.
- High unloading capacity – up to 1,000 tons/h (40,000 bu/h).
- Space conservative.
- Total clean out – no space for insects to hide.



Aeration

The KANALSYSTEM™ provides excellent aeration opportunities because of the design and introducing the airflow uniformly throughout the grain storage bin/flat storage.

Due to the design with concrete ridges in the KANALSYSTEM™, the air blown into the system will follow the ridges leaving all grain exposed to the airflow. This allows for 100 percent of the grain kernels in the grain structure to be exposed to the airflow.

Unloading

Safety is one of the biggest assets of the KANALSYSTEM™. The system is self-cleaning and has no mechanical moving parts inside the grain structure. Using the KANALSYSTEM™, no sweep augers are required, nor the need for personnel entering the unfavorable environment during emptying.

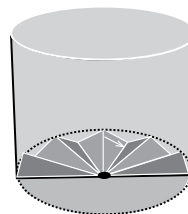
Unloading capacity

Unloading capacity in tons or bushels per hour varies with the size of the bin and the fan size. The KANALSYSTEM™

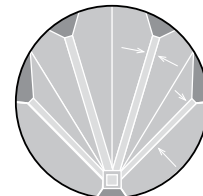
can be designed to be emptied after gravity flow ceases at a rate of up to 1,000 tons/h (40,000 bu/h).

Design

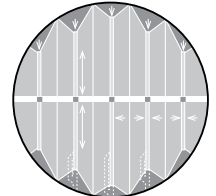
The original KANALSYSTEM™ consists of specially designed ducts with perforated decking to be placed on a flat concrete base. Concrete ridges are formed between the ducts at the angle required for the grain to flow onto the decking of the KANALSYSTEM™. The KANALSYSTEM™ is self-cleaning and has no mechanical parts inside the grain structure.



Center Draw Off



Side Draw Off



Multiple Gates

Optimizing Quality Control

Grain Cooler

The KANALSYSTEM™ was originally designed to provide the quality airflow to properly condition grain using the total climate control provided by the TORNUM Grain Cooler.

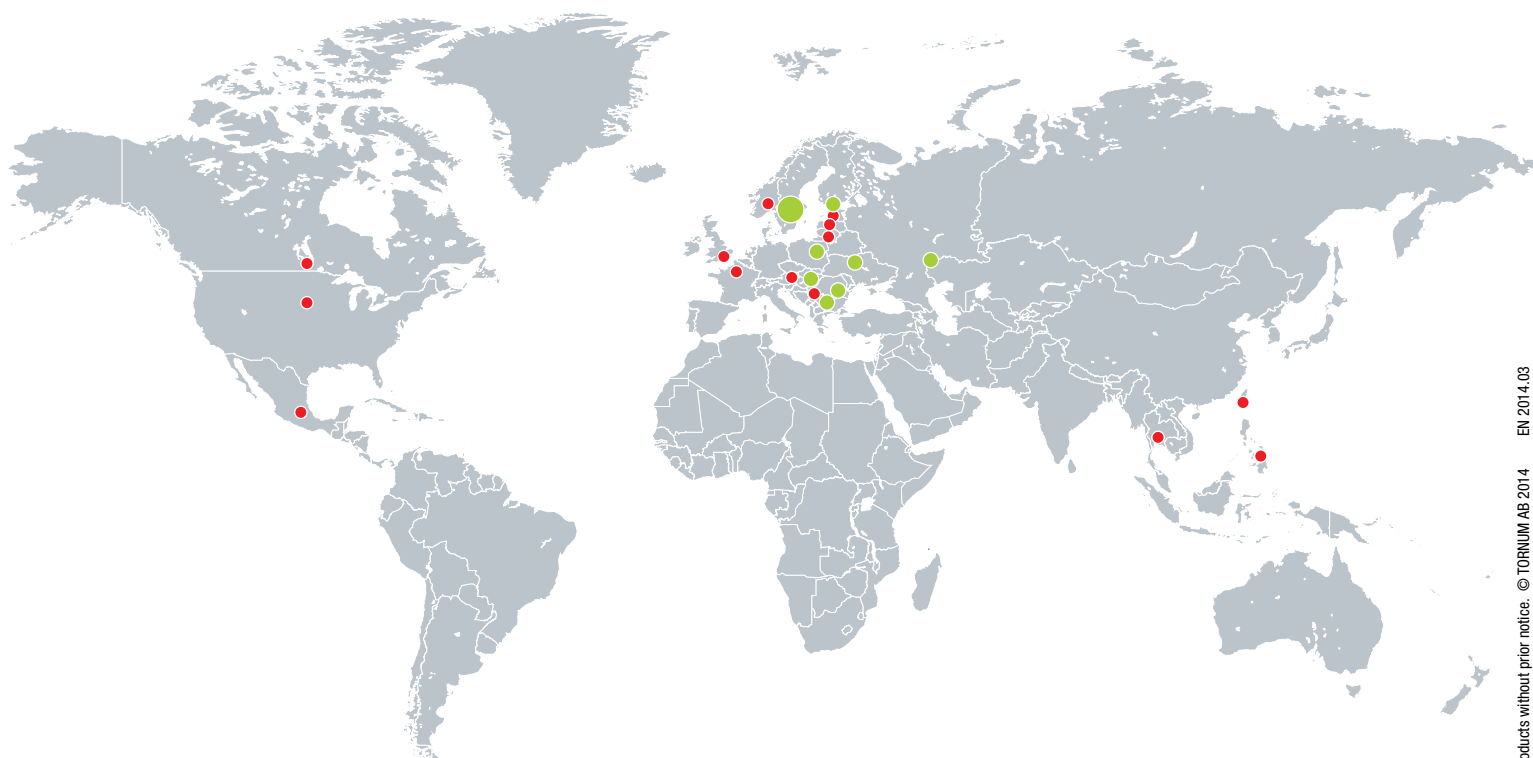
It has accomplished this goal in all types of silos up to 170 ft (52 m) height and is equally at home in flat storage buildings.

A TORNUM Grain Cooler accomplishes what nature cannot always provide – safe storage temperature resulting in an insect free environment and proper moisture retention.



TORNUM

– a Global Partner



TORNUM has many years of experience in manufacturing and supplying complete grain handling systems for the agricultural and grain industries. We offer complete solutions for drying, storage and conditioning of grain both for new plants and extensions to existing facilities.

Our manufacturing program includes an extensive range of products for grain handling including dryers, storage silos and coolers. TORNUM strives to deliver professional customer guidance to construct and build the best possible system for their operations.

We serve our customers through our head office in Sweden, subsidiaries in Poland, Hungary, Romania, Finland, Latvia and Lithuania and the Ukraine, or via representatives in other countries. TORNUM has become famous for its design and proven capacity. Before you start your next project – it is worth contacting TORNUM!