



Professional Grain Handling Equipment



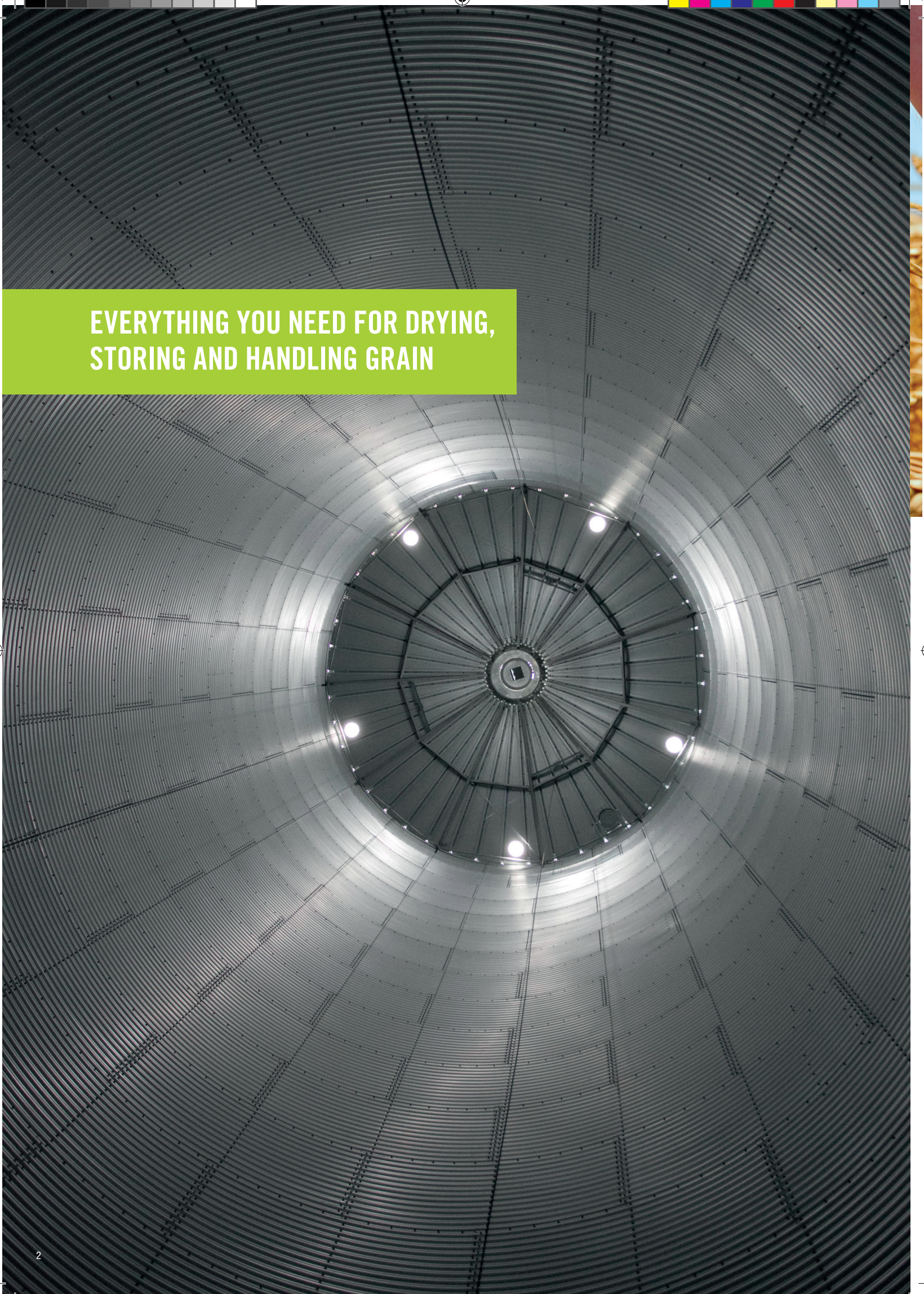
**SOLUTIONS FOR
THE WORLD'S
MOST IMPORTANT
BUSINESS**



TORNUM[®]

WWW.TORNUM.COM





**EVERYTHING YOU NEED FOR DRYING,
STORING AND HANDLING GRAIN**



Your global partner

TORNUM DEVELOPS AND manufactures grain handling equipment – everything from large scale turn-key facilities for the grain industry to dryers and equipment for small farms. We have developed a strong, market-leading global brand through decades as an innovative, first class supplier.

Using the latest production and design technologies, we build the grain handling systems of tomorrow. Our close collaboration with agricultural and industrial customers all over the world pushes our product development to the forefront, with a single objective: to improve your business, now and in the future.

A TRULY GLOBAL COMPANY – FOUNDED ON SWEDISH QUALITY STANDARDS

All our products are manufactured to exacting quality standards from high grade materials – many of them at our modern, highly automated facility in Kvänum, Sweden – the heartland of Nordic farming. Through our expertise, experience and

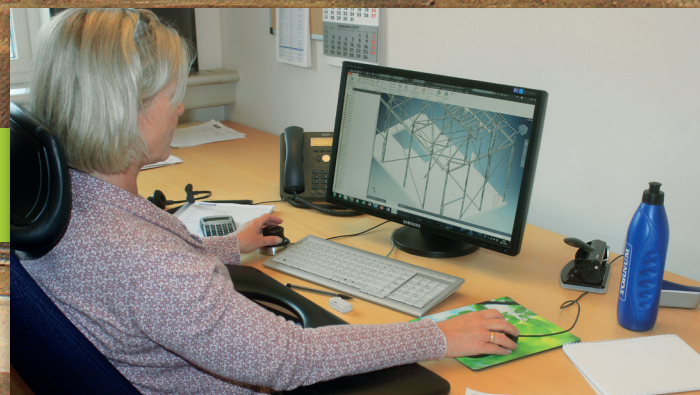
successful development work, we have become a trusted partner in the field of grain handling worldwide. Our extensive international network of fully-owned subsidiaries and well-renowned distributors ensure the support you need – whenever you need it.



We support you all the way

– FROM PLANNING AND DESIGN THROUGH
CONSTRUCTION TO START-UP AND TRAINING!

TO US, EVERY CUSTOMER is unique, with specialized requirements. That is why we are committed to getting everything right, by offering support all the way from the early planning stages to the finished product – including training your staff.







TORNUM OFFERS dryers for every need imaginable, from small farms to large scale grain handling industries. All our dryers are made to exacting quality standards from hot-dipped galvanized sheet steel. They have been designed for use with most common heat sources, such as gas burners, hot air furnaces, hot water coils, pre-heating coils and rape seed oil burners. In all these cases, we offer efficient solutions with a proven track record for reliability and low operating costs.

TORNUM HR Our heat recovery dryers are the result of our continuous efforts to improve performance and to reduce energy consumption. Up to 30 per cent of the heat is recovered through recirculation, not only reducing running costs and environmental impact but also contributing to a quieter and cleaner work environment.

TORNUM TK Our mixed flow dryers are designed to offer good heating economy and a gentle drying. They are well suited to the needs of grain industry users and farmers alike. With the TK BIG series, Tornum can offer the agricultural industry new levels of performance. At full power our largest dryer, the TK16-44, has a drying capacity of 300 tons per hour. The TKDC series incorporates the same dust separation technology used in our HR dryers.

TORNUM TS Our TS batch dryers can be adapted to different capacity requirements and is equipped with adjustable shutters for drying smaller batches. A discharge section between the dryer sections and the discharge hopper makes it possible to recirculate the batch without having to empty the entire unit, ensuring even drying, good economy and a quality end product.

Dryers to fit any needs





Tornum IDC

– THE EASY WAY TO AVOID COSTLY OVERDRYING

INTELLIGENT DRYER CONTROL **TORNUM®**

OVERVIEW ▾ DRYING PROGRAM CALIBRATION STATISTICS MESSAGES HELP SETTINGS Administrator Logout

Overview 1

Status - HR6-22

8/24/17 4:43 PM
Lower sensor has been calibrated. 13.9% (12.9%)

Operating mode
Normal mode

Drying program

Moisture content set point ∅
13.3
% MC

Drying temperature set point
80
°C

Moisture tolerance ?
Medium

Status

Drying Control

Auto mode

Burner active

Drying time
3d 02:37

Pulse rate
41.9
Pulses/hour

Calibration of upper sensor

Calibration of lower sensor

Temperature

Drying air temperature
79.5 °C

Outgoing air drying zone

Temperature 2
40.0 °C

Outgoing air cooling zone

Temperature 1
39.0 °C

Moisture

Upper moisture sensor

Moisture at discharge

Output moisture content ∅
13.4
% MC

Output since startup ∅
13.3
% MC

INTELLIGENT DRYER CONTROL Tornum IDC is a software based control system, controlling the outgoing moisture content in continuous dryers. Via the user-friendly interface, you have full control over the entire drying process on your PC or tablet. Using information about incoming and outgoing moisture content, the control unit sets the speed of the dryer discharge to obtain exactly the desired

average moisture content out of the dryer, regardless of ambient conditions. This way, you take the guesswork out of the drying process and minimize the risk of over-drying your grain just to be on the safe side. Fewer man-hours needed to monitor the drying process lower the costs even further.





Grain storage



BULK LOADING BINS UT

The extremely robust lattice frame UT bulk loading bin ensures quick and efficient drive-through loading. Just like our silos, it is made from hot-dip galvanized steel, and is available with a range of optional equipment.



HOPPER SILOS We offer 45° and 60° hopper silos (see above) to suit any need – even wet products with high friction angles. Smooth wall hopper silos can be supplied on request in selected sizes. An extensive accessory programme means you can have your Tornum silo just the way you want it.

STORAGE SILOS Our flat-bottomed silos are designed for final storage of all free-flowing cereals. The ribbed modular roof segments and the galvanized side sheets (up to 600 g/m²) produce exceptionally robust silos, designed to Eurocode or ASAE/ANSI standards.



Optional equipment

GRAIN COOLER With the Tornum Grain Cooler, you usually only have to cool the grain once for it to retain the perfect temperature. It can be linked up to virtually all storage systems to maintain perfect storage conditions for all types of granular material, regardless of ambient temperature and humidity. Cooling the grain requires less energy compared to drying it, saving large amounts of money and reducing environmental impact. Safeguarding storage conditions also reduces grain loss by insect attacks, without using insecticides.



KANALSYSTEM™ – CONDITIONING AND DISCHARGING

Tornum's KANALSYSTEM™ features a unique dual function – high discharge capacity combined with excellent conditioning properties. The system consists of perforated ducts embedded in a concrete surface. Ridges between the ducts ensure that 100 per cent of the grain is exposed to the airflow. The system is self-cleaning with no mechanical parts inside the silo. No sweep auger is required, and staff do not need to enter the silo during discharge.



Transport equipment

ELEVATORS AND CONVEYORS Tornum supplies complete turnkey transport equipment solutions in three different product lines, suited to different basic requirements. Each system comprises performance matched bottom conveyors, elevators and top conveyors.

BELT CONVEYORS Tornum's belt conveyors are optimised for grain and oil plants. They come in modular form and are made from hot-dip galvanized steel. V-set conveyor idlers provide safe and energy-efficient transport. They are available for reversible operation and inclined transport.

AUGERS A robust assortment of sweep augers and screw augers for any required inclination are also a part of the Tornum product line-up, built to withstand continuous use.

Controlling dust and noise



TORNUM CDS CENTRIKLON The Centriklon is a dust separator used for removing dust and chaff from grain dryers, offering high capacity in a small space. As it has no moving parts, maintenance needs are minimal. It is available in various sizes and is dimensioned for air volume and capacity.



TORNUM CAC The Clean Air Control system removes 95 per cent of grain dust and chaff and produces less dust emissions compared to a traditional fan. It is available in a horizontal as well as a vertical design with any desired voltage.



TORNUM SILENCERS Our silencers make it easier to comply with local noise regulations, as well as providing a better work environment.

...AND MUCH MORE AT
www.tornum.com

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- TORNUM SUBSIDIARY
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