

# INTER-SILO

Because Grain Matters



## Industrial Product Catalogue

GRAIN SILOS



CONVEYOR SYSTEMS



INDUSTRIAL DRYERS



CONTROL PANELS

## INTER-SILO industrial installations



### About Inter-Silo

For many years, the people behind Inter-Silo have installed and maintained grain storage facilities, firstly in Denmark, and later in several other European countries. During the first three years of operation the company already has supplied their specialized services in Denmark, Romania, Sweden, Netherlands, United Kingdom, Norway, Finland, Albania, Russia and Germany. Inter-Silo's services are not only for the farmers – the company has extensive experience in constructing and maintaining large scale industrial projects and is aware of the needs of their customers. Since 2014, Inter-Silo is the official reseller for Dan-Corn A/S in Lithuania. Dan-Corn A/S has more than 55 years of experience and is the leading grain silo company in Denmark - subsequently in many European Countries.

### Dan-Corn A/S statement

*„Through the last 3 years we have cooperated with Inter-Silo with regards to the assembly of silos and conveyor systems. The assembly assignments have covered both agricultural and industrial silos, i.e. feed companies. During the peak season of 2013, we employed 10-12 assembly teams from Inter-Silo. We have made an agreement with Inter-Silo, leading to the fact that we will mainly use Inter-Silo for silo assembly. The consequence is that we will assemble silos in 2014 by means of 12-15 assembly teams from Inter-Silo. Our hopes to this cooperation are high, because Inter-Silo has always shown professionalism and a high level of service and quality.“*

Jens Munk Jensen  
Managing Director Dan-Corn A/S



### Owner's statement

*„I started in this business almost 15 seasons ago and have thereby been able to follow the rapid development of an interesting market. In 2000, the very first American silos were imported and built in Denmark. Since then it has been an amazing experience to see how farmers all over North Europe have adopted the drying silo. After three busy years, during which Inter-Silo has grown rapidly, it has been a natural step to open our sales department in Lithuania. Until now Inter-Silo directed all focus onto silo installation in several European countries. However, with the significant agreement of cooperation with Dan-Corn A/S, which we signed at the end of 2013, we are now looking forward to apply our extensive expertise by serving the Lithuanian market directly.“*



Lars Young Mogensen  
Owner

## INTER-SILO industrial installations



### Hornslyd Købmandsgaard A/S industrial project

Inter-Silo serves both agricultural and large industrial customers' needs. The experts of the company have built industrial grain silos in Denmark, Romania, Russia and other European countries. In 2012, Inter-Silo installed the largest grain silo in the history of Denmark, with the capacity of 8 000 tons. In 2014 the same project is planned to be extended and during the spring Inter-Silo will install another two model 7818 grain silos for the same customer. By adding two more commercial silos the storage capacity in silos at Hornslyd Købmandsgaard A/S, will reach 24.000 tons. In 2012 Inter-Silo has also installed a tower dryer for this client as a subcontractor for Dan-Corn A/S.



### Lars Christensen, Hornslyd Købmandsgaard A/S (Denmark) Manager

*„One year the farmers sold us more grain, so we had to take a big step up on the grain storage and drying facilities. We immediately started the building application for a large long term grain storage, so today we have permission for installing two more similar silos for upgrade today's storage. The company's experts helped us with drawing works, calculations, local authorities and so on. At the same time we also had an external engineer to double check that everything was under control. I think this has been extremely positive and I'm very surprised about their great efforts to solve all our problems.“*

### Tower dryer

Its drying capacity is up to 130-150 tons per hour. The customer needed the powerful dryer in order to effectively dry large amounts of grain stored in the grain bin next to it. Jens Jensen, the Operations Manager for Hornslyd Købmandsgaard A/S, confirmed that the tower dryer can dry up to 150 tons of the grain in one hour by removing 4 % of moisture.



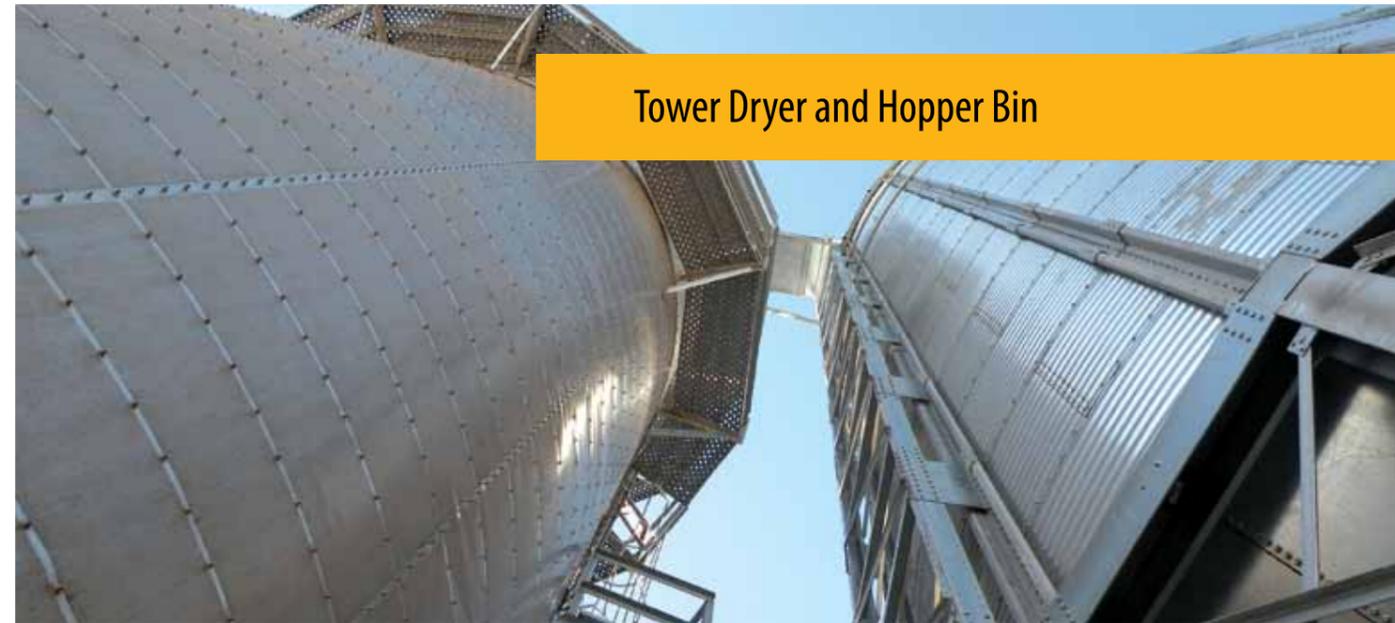


Bin roof with internal rafters for extra strength

### An industrial quality bin from Inter-Silo:

- Bin diameter from 10.97 to 47.5 m
- Eaves height from 10.08 to 26.8 m
- Capacity from 800 t to 37,500 t of wheat
- Well-tested construction
- External stiffeners provide for maximum strength
- Galvanised steel construction
- Minimum effort required for loading and unloading
- Grain storage without access for birds and animals
- Aeration system
- Optimal use of the developed space
- Stairs and catwalks provide safe access
- Grain storage at a low price
- Regulation safety devices fitted

The bins are delivered as a standard with anchor foundation bolts, roof ladder with railing, external ladder or spiral staircase, internal inspection ladder, access door in the silo wall, large roof manhole with safety railing and flexible sealant between bin and foundation. The silos can be delivered in your chosen RAL-colour.



Tower Dryer and Hopper Bin

### The different stages of the silo construction:

- First, the main channel is concreted under the floor.
- Consequently, the peripheral foundations, the fan foundations and the bin floor are concreted.
- Then, the top bin rings are assembled on the foundation.
- The bin roof is built on the top silo rings.
- All parts on the bin roof are assembled.
- The bin is lifted and the remaining bin side sheets and external stiffeners are assembled.
- The bin is bolted to the foundation.
- Finally, all bin wall accessories are mounted.

The diameter of industrial steel bins is typically quite large and therefore it might be necessary to divide the roof sheets into more sections. The roof sheets are mounted on strong steel rafters. This means that the load capacity of the roof is increased giving the option to mount heavy equipment like catwalks and heavy conveyor systems above the bins. Furthermore, it is possible to load a large number of sensor cables for temperature monitoring.

### Foundation for Inter-Silo industrial grain steel bin

The bin is fixed to the concreted foundation with strong anchor foundation bolts through the brackets bolted to the external bin stiffeners.



### Hopper Bins

The Inter-Silo hopper bin is an excellent buffer to place in front of your Mobile, Stack or Tower Dryer, as it is self emptying and robust bin. Available in 60 standard sizes with external stiffeners and 45° bin bottom with strong Roller-Gate outlet slide.

**Capacity up to 824 tons of wheat**  
**Volume from 78 to 1,084 m³**  
**Diameter from 4.57 to 9.14 m**



A strong foundation built to meet future challenges...

## INTER-SILO industrial installations



With the latest technology our bins are in perfect harmony with the surroundings ...

### Control Panel

An Inter-Silo bin installation can include a control panel adapted to your specific wishes and requirements. We deliver PC / PLC solutions with touch screen from which the whole silo installation can be operated and supervised. At the same time you have the option to remote control and update the installation via the Internet.



### Temperature monitoring of grain in storage bins

With an Agrolog temperature system you may supervise and control the temperature in your storage bins. Temperature cables are mounted in the bin with sensors in 2-3 m vertical increments. The PC program gives you the overview of the temperature development and the option to start/stop the fans automatically, alarms, historic operational data etc. everywhere in the bin.

### Aeration

In order to ensure the quality of the stored grain it is vital to aerate and cool the grain in the bin. The air is supplied at the bottom of the bin either through concreted channels in the floor or through a fully perforated aeration floor mounted in the bin. The air leaves the bin through a number of roof vents in the bin roof.



### Fan

Inter-Silo fans from 7.5 – 40 kW are manufactured with a fully galvanised fan impeller in order to ensure the fan a long life. The fan impeller is developed using the latest technology resulting in a highly efficient output.



## INTER-SILO industrial installations



### Conveyor system

Beside the storage facilities, an Inter-Silo bin installation can also include a conveyor system for loading and unloading of the bins. The conveyor system would normally include a bucket elevator, augers and chain conveyors and offer you the best possible grain bin installation.

### Inter-Silo industrial dryers with capacities up to 200 t/h.

The modular, low noise Stack Dryers and Tower Dryers are with energy saving heat recovery as a standard. All dryers are designed with focus on simplicity, operational reliability, drying efficiency, user-friendliness and energy efficiency.





# INTER-SILO

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