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STAHL IST UNSER METIER

seit 1959



Tower silo

Grain & maize
Whole grain silage



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Our product

For more than 40 years, we have been building gas-tight tower silos for the storage of maize / CCM or freshly harvested and dry grain. We use bolted segments of enamelled steel or stainless steel as silo walls in combination with stainless steel roofing. This ensures lasting resistance against corrosion. In addition, the use of polyurethane sealant ensures our silos stay gas-tight for a very long time.

By using smooth sheet metal elements and countersunk bolts, we minimise the risk of residues and dust deposits in the silo. The flow behaviour of heavy-flowing bulk materials is also improved. This reduces the risk of bridging.

Tower silo storage of maize, CCM and wet grain

Directly from the field into the silo – with a Harvestore silo, wet maize, CCM and wet grain with a moisture content of up to 40% can be stored without any chemical additives. The absolute exclusion of oxygen in the airtight silo means a CO₂ atmosphere is developed, preserving stored media almost in their original state without any loss of nutrients.

An oxygen-free atmosphere in the silo is created when oxygen in the closed, gas-tight tank is breathed by the stored crop and processed into CO₂. If no new oxygen comes into contact with the grain, no additional storage losses will occur. Starting from a moisture level of 20%, lactic acid fermentation also begins, which has a positive effect on the nutritional value of the fodder.

The result? Optimal year-round fodder quality with cost-effective in-house milling.

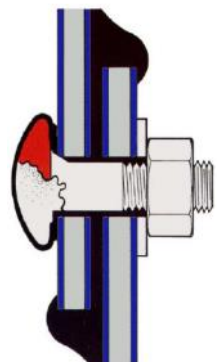


Our system

Stable bolt connections and the durable elastic special sealing compound ensure a flexible and gas-tight silo.

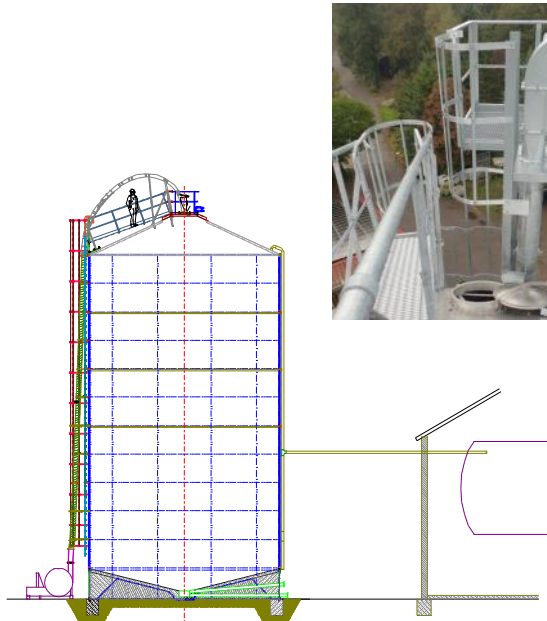
Capacity expansion of one or more silo rings is possible without any problems.

Under our guidance, you can also take over a lot to the construction and thus reduce overall costs.



Filling

You can safely and speedily fill your tower silo using turbine blowers or a bucket elevator, screw conveyors and/or trough chain conveyors. Important here is the gentle handling of your bulk materials with maximum performance and optimal energy efficiency. At the same time, safe access for maintenance work is facilitated. On request, we can provide you with complete solutions for acceptance, cleaning and conveyor technology from renowned manufacturers.



Breathing system

Fluctuations in temperature naturally cause pressure fluctuations in the system. In order to minimise the loss of CO₂, it is absorbed by the externally suspended breathing bag and released back into the silo once the pressure is equalised. The bag additionally serves to check the tightness of the entire system.

Removal system

Silohaake System:

- Ensures safe removal even when crop moisture levels are high and prevents CO₂ from escaping.
- Downstream wet milling with stainless steel hammers guarantees optimum fodder structure.
- Wet milling prevents any negative effects on the enzymes.

Sweep auger removal for wet grain and wet maize:

- Separate switchable sweeping arm.
- Externally adjustable feed hopper.
- Safe removal of wet maize with water contents exceeding 35% possible.
- Large discharge auger facilitates a high discharge capacity and thus a short silo opening time, minimising CO₂ loss during removal.

Bottom unloader with discharge by auger:

- For heavy-flowing bulk materials such as wet maize, soy and rapeseed meal, MBM and blood meal.
- High removal capacity.
- Relieves the chains of the bottom unloader.



Of course, we also offer other removal and storage systems, e.g. hopper removal, pulp storage, etc. Please don't hesitate to get in touch – we're happy to inform you about our other offers!

Our range of products and services is as diverse as your needs. Whether you intend to store 100 tonnes or 10,000: Harvestore silos are flexible and can be tailored to suit your business!

Excerpt from our tank volume list (enamelled)

TYPE	Height (m)		50	55	60	65	70	75	80	85	90	Roof height	Roof volume
	Diameter (m)	Pl./ Ring	14,07	15,47	16,87	18,27	19,67	21,07	22,47	23,87	25,27		
			10	11	12	13	14	15	16	17	18		
20	5,98	7	395	434	474	513	552	592	631	670	710	1,09	10
22	6,83	8	515	567	618	669	721	772	823	875	926	1,24	15
25	7,68	9	652	717	781	846	911	976	1.041	1.106	1.171	1,4	22
28	8,54	10	806	886	966	1.047	1.127	1.207	1.287	1.367	1.447	1,55	30
31	9,39	11	974	1.071	1.168	1.265	1.362	1.459	1.556	1.653	1.750	1,71	39
34	10,24	12	1.159	1.274	1.389	1.505	1.620	1.735	1.851	1.966	2.081	1,86	51
36	11,10	13	1.362	1.497	1.632	1.768	1.903	2.039	2.174	2.310	2.445	2,02	65
39	11,95	14	1.578	1.735	1.892	2.049	2.206	2.363	2.520	2.677	2.834	2,17	81

Sizes / dimensions / colours

- * Silo volumes from 100 - 3,000 m³
- * Diameters from 4,27 - 11.95 m
- * Heights from 8.47 - 25.27 m

Standard enamel colours are:

1. Blue (cobalt blue, similar to RAL 5013)
2. Green (grey olive, similar to RAL 6006).

Our offer

We gladly develop complete system solutions to suit your every need. Request further information from us concerning

- Storage of fermented fodder
- MBM storage / special solutions
- Galvanised grain silos
- Bottom unloaders
- XL unloaders
- Top unloaders
- Silohaake Systemtechnik (Silohaake system technology)

or visit our website: www.harvestore.de.

Please feel free to contact us. We are happy to provide you with a non-binding offer.

You can also find out more about our other products:



Slurry silo



Biogas



Sewage



Gas holders

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