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# GRAIN SILOS

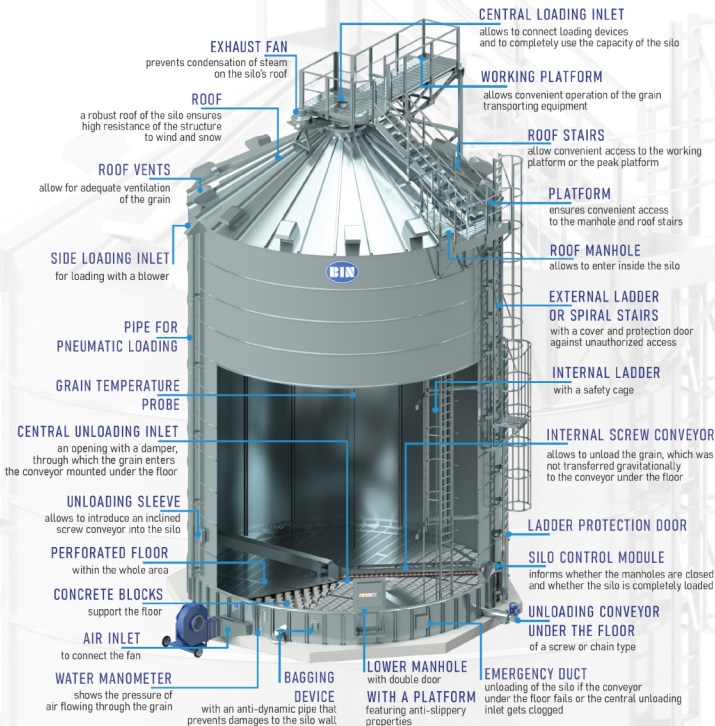
## FLAT BOTTOM

**WITH ACTIVE  
VENTILATION**





# FLAT BOTTOM GRAIN SILO



The equipment is different in different silo models.

## SILO ADVANTAGES



long storage of the grain



lower price when compared with other types of silos



lower risk of mold and pests

## FUNCTIONALITY



for storage of grains, maize and seeds of oil plants



cooling down and drying the stored grain



equipment mechanizing the loading and unloading of grain

## STRUCTURE



high quality galvanized sheet and connectors



roof with embossed areas that prevent waste from getting inside the silo



compliant with fire resistance parameters

# FLAT BOTTOM SILO MODELS STANDARD AND OPTIONAL EQUIPMENT

	NB10	NB13W	NB20N	NB20	NB20W	NB20WW	NB40	NB60W	NB60WW	NB100U
CAPACITY (t)*	10,5	13,5	19,7	22,4	28,1	33,8	57,7	68,8	91,0	99,8
VOLUME (m³)	15,6	19,5	26,3	29,9	37,4	45,0	76,9	91,7	121,3	133
HEIGHT (m)**	4,6	5,5	4,3	4,8	5,8	6,7	6,1	7,1	9,0	7,2
DIAMETER (m)	2,3	2,3	3,2	3,2	3,2	3,2	4,5	4,5	4,5	5,4
WEIGHT (kg)***	560	719	820	861	984	1161	1 475	1 699	2 062	2 430
ACCESS	external ladder	S		S	S	S	S	S	S	S
	internal ladder	S		S	S	S	S	S	S	S
	spiral stairs	-		-	-	-	-	-	-	-
	roof stairs	-		-	-	-	-	-	-	0
	peak platform	-		-	-	-	-	-	-	0
	working platform	-		-	-	0	0	0	0	0
	lower manhole with a platform	-		0	0	0	0	0	0	0
	roof manhole	S		S	S	S	S	S	S	S
ACTIVE VENTILATION	air inlet	S $\varnothing$ 180		S $\varnothing$ 180	S $\varnothing$ 180	S $\varnothing$ 310	S $\varnothing$ 310	S $\varnothing$ 310	S $\varnothing$ 310	S $\varnothing$ 310
	universal air inlet	-		-	-	-	-	-	-	-
	fan	0 PP2		0 PP2	0 PP2	0 PP2	0 PP2	0 PP2	0 PP2	0 PP2
	exhaust fan	0		0	0	0	0	0	0	0
	air heater	0 4,5 kW		0 4,5 kW	0 4,5 kW	0 4,5 kW	0 4,5 kW	0 4,5 kW	0 4,5 kW	0 4,5 kW
	roof vent	-		-	S 1 pcs.	S 1 pcs.	S 1 pcs.	S 1 pcs.	S 2 pcs.	S 2 pcs.
	water manometer	S		S	S	S	S	S	S	S
	temperature probe	0		0	0	0	0	0	0	0
LOADING AND UNLOADING	central loading inlet	S		S	S	S	S	S	S	S
	side loading inlet	S		S	S	S	S	0	S	
	bagging device	S		S	S	S	S	0	0	
	anti-dynamic pipe of the bagging device	-		-	S	-	S	0	0	
	unloading sleeve	-		0	0	0	0	-	0	
	emergency duct	-		-	-	0	0	S	S	
	unloading conveyor under the floor	0		0	0	0	0	0	0	
	internal screw conveyor	-		-	-	0	0	0	0	
	silo control module	0		0	0	0	0	0	0	

\* capacity for wheat with density of 750kg/m³ referred to the useful storage capacity; actual volume of material accumulated in the silo depends on, among others, bulk properties of the material, max. permissible loading of the silo, etc.

\*\* height measured from the foundation to the top of the central loading inlet in the roof

\*\*\* net weight of silo components

NB100WU	NB120U	NB120WU	NB150	NB150W	NB150T	NB150TW	NB150N	NB150P	NB150U	NB150WU
132	211	261	521	604	948	1095	1170	1285	1514	1744
176	281	348	695	805	1264	1460	1560	1713	2019	2325
9,1	9,6	11,5	13,9	15,8	14,7	16,6	12,7	13,7	15,5	17,4
5,4	6,7	6,7	8,6	8,6	11,5	11,5	14,3	14,3	14,3	14,3
2 914	4 246	4 883	9 093	10 560	14 596	16 386	17 682	18 504	20 452	22 988
S	0	0	0		0				0	
S	S	S	S	S	S				S	
-	0	0	0	0	0				0	
0	0	0	0	0	0				0	
0	0	0	0	0	0				0	
0	0	0	0	0	0				0	
S	S	S	S	S	S				S	
S	S	S	S	S	S				S	
S $\varnothing$ 310	S $\varnothing$ 310	S $\varnothing$ 310	S $\varnothing$ 400	S $\varnothing$ 400					S $\varnothing$ 400	
-	0	0	0	0	0				0	
0 PP2	0 PP2	0 PP2	0 WPS	0 WPS					0 WPS	
0	0	0	0	0	0				0	
0 4,5 kW	0 9 kW	0 9 kW	-	-					-	
S 3 pcs.	S 10 pcs.	S 10 pcs.	S 12 pcs.	S 18 pcs.					S 32 pcs.	
S	S	S	S	S					S	
0	0	0	0	0					0	
S	S	S	S	S					S	
S	0	-	-	-					-	
0	-	-	-	-					-	
0	-	-	-	-					-	
0	-	-	-	-					-	
S	S	S	S	S					S	
0	0	0	0	0					0	
0	0	0	0	0					0	
0	0	0	0	0					0	

S - Standard, 0 - Optional

## INLET FAN

COOLS DOWN, VENTILATES AND DRIES THE GRAIN

## AIR HEATER

HEATS UP THE AIR THAT DRIES THE GRAIN

## TEMPERATURE PROBE

ALLOWS TO MEASURE THE TEMPERATURE OF THE STORED GRAIN

## EXHAUST FAN

REMOVES DUST AND MOIST AIR FROM ABOVE THE GRAIN, PREVENTS CONDENSATION OF STEAM ON THE SILO'S ROOF

### UNLOADING THE SILOS

#### BAGGING DEVICE

- intended for unloading small amounts of grain,
- installed in small silos,

#### UNLOADING SLEEVE

- an inclined screw conveyor is placed there,
- we recommend the SLEEVE EXTENSIONS
  - the conveyor will collect more grain without the need to load it manually to the conveyor intake,

#### CONVEYOR UNDER THE FLOOR

- a screw or a chain conveyor,
- the grain reaches the conveyor through the outlet in the middle of the floor
- it transports the grain outside the silo,

#### INTERNAL SCREW CONVEYOR

- it collects the grain, which is not poured gravitationally to the conveyor under the floor,

#### EMERGENCY DUCT

- on or under the floor,
- used in the case the unloading devices fail or when the grain cakes over the inlet to the conveyor under the floor

### LOADING THE SILOS

#### BLOWER

- a pneumatic loading system intended for small silos,
- with its own hopper basket,
- the same fan is used to ventilate the silo,
- it transports vertically to the height of up to 7 m, capacity of up to 6t/h

#### VERTICAL SCREW CONVEYOR

- it occupies little space,
- it has own hopper basket,
- it can be connected to a conveyor under the floor, and can be used to unload the grain onto a trailer,
- it transports vertically to the height of up to 12 m, capacity up to 24t/h,

#### BUCKET CONVEYOR

- to load a series of silos,
- supported with a tower or fixed to the silo,
- raising height up to 25.5 m, capacity of 45t/h,

#### RECEIVING PITS

- driveable and non-driveable,
- screw and chain type

✓ since 1990 we have provided Polish and European farmers with more than 65 000 silos

✓ since 2014 we have been controlling the quality of our anti-corrosion coating applied to bolts, washers and nuts in salt spray test chamber

✓ we hold the Factory Production Control Certificate issued by the Institute of Welding in Gliwice

✓ we develop projects of our silos according to the European construction standards – Eurocode



4 x NBIN1001W + 3 x NBIN1500W

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HOPPER GRAIN SILOS

FEED SILOS

EQUIPMENT OF FEED ROOMS

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