FLAT BOTTOM SILOS FOR GRAIN STORAGE
MADE OF FLAT AND CORRUGATED SHEETS OF STEEL

WITH ACTIVE VENTILATION

10-5000 t
2,3-19,1 m
4,6-26,1 m
FLAT BOTTOM SILO FOR GRAIN STORAGE. MADE OF FLAT SHEETS OF STEEL

- CENTRAL LOADING INLET
  - Prevents condensation of water vapor on the roof of the silo
- EXTRACTION FAN
  - Prevents dust accumulation on the roof of the silo
- SERVICE CATWALK
  - Provides comfortable operation of grain transport equipment
- ROOF STAIRS
  - Provides access to the roof hatch
- PLATFORM
  - Provides access to the roof hatch and roof stairs
- ROOF HATCH
  - Provides access to the roof hatch
- EXTERNAL LADDER
  - Provides access to the roof hatch
- SPIRAL STAIRS
  - Provides access to the roof hatch
- INTERNAL LADDER
  - Provides access to the roof hatch
- INTERNAL SWEPT AUGER CONVEYOR
  - Transfers grain vertically to a height of 7 m and offers a conveying capacity up to 6 t/h
- LADDER PROTECTION
  - Against unauthorized entry
- CONTROL MODULE OF THE SILO
  - Ensures the control of the silo's operation
- DISCHARGE CONVEYOR
  - Transfers grain vertically to a height of 12 m and offers a conveying capacity up to 24 t/h
- EMERGENCY OUTLET OF GRAIN
  - Transfers grain vertically to a height of 25.5 m and offers a conveying capacity up to 45 t/h
- BAG FILLING DEVICE
  - Used for unloading small quantities of grain
- UNDERFLOOR CONVEYOR
  - Transfers grain vertically to a height of 7 m and offers a conveying capacity up to 6 t/h
- INTERNAL SWEPT AUGER CONVEYOR
  - Transfers grain vertically to a height of 12 m and offers a conveying capacity up to 24 t/h
- BUCKET ELEVATOR
  - Transfers grain vertically to a height of 25.5 m and offers a conveying capacity up to 45 t/h
- INTAKE HOPPERS
  - Of overrun and non-overflow type
  - Of screw or scraper type

SILOS UNLOADING
- BAG FILLING DEVICE
  - Used for unloading small quantities of grain
  - Installed in small silos
- UNLOADING SLEEVE
  - House the inclined screw conveyor
  - Recommended for the SLEEVE EXTENSION - the conveyor will be able to take more grain without the need to manually scooping it to the conveyor inlet
- UNDERFLOOR CONVEYOR
  - Of screw or chain (scrapers) type
  - The grain is provided to this conveyor through the inlet in the middle of the floor
  - Transfers grain outside the silo
- INTERNAL SWEPT AUGER CONVEYOR
  - Transfers grain that could not be transferred gravitationally to the underfloor conveyor
- EMERGENCY OUTLET OF GRAIN
  - Located on the floor or under the floor
  - Used in the case of a failure of unloading equipment or grain caking above the inlet to the underfloor conveyor

SILOS LOADING
- BAG FILLING DEVICE
  - Used for loading small quantities of grain
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  - Transfers grain vertically to a height of 7 m and offers a conveying capacity up to 6 t/h
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- BUCKET ELEVATOR
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  - Of screw or scraper type

AVANTAGES OF THE SILO
- Long-term grain storage
- Reasonable price
- Reduces the risk of mould and pests

FUNCTIONALITY
- For the storage of grain, cereals, corn, and legumes
- Cooling and drying of stored grain
- Equipment for mechanized loading and unloading of grain
- High-quality galvanized sheets of steel and fasteners
- The roof is ribbed to prevent rain entering the silo
- They meet required parameters of fire resistance

DESIGN
- Zinc-coated metal sheets
- Fire resistance certificate
- Built-in fire protection system
- Built-in gas explosion protection system

ENSURE PROPER CONDITIONS OF GRAIN STORAGE IN THE SILO
- FORCED VENTILATION FAN
  - For cooling, aerating, and drying grain
- TEMPERATURE PROBE
  - For measuring the temperature of stored grain
- EXTRATION FAN
  - Removes dust and humid air from the space above grain, prevents condensation under roof of the silo
- AIR HEATER
  - For heating air that dries grain
- PERFORATED FLOOR
  - Perforation of the entire floor surface ensures efficient ventilation

Since 1990, we have delivered over 65,000 silos to Polish and European farmers.
Since 2014, we have been controlling the quality of anti-corrosion coating of connectors in a brine chamber.
We have been granted a Certificate of Factory Production Control issued by the Institute of Welding in Gliwice city.
Our silos are designed according to European construction standards called Eurocodes and provide our customers with free project in the electronic version.

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### Models of Flat Bottom Silos Made of Flat Sheets of Steel

<table>
<thead>
<tr>
<th>LOADING CAPACITY (t)</th>
<th>10.5</th>
<th>13.5</th>
<th>19.7</th>
<th>22.4</th>
<th>28.1</th>
<th>33.8</th>
<th>35.0</th>
<th>44.0</th>
<th>52.0</th>
<th>61.0</th>
<th>57.7</th>
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<tbody>
<tr>
<td>VOLUME (m³)</td>
<td>15.6</td>
<td>19.5</td>
<td>24.3</td>
<td>29.9</td>
<td>37.4</td>
<td>45.0</td>
<td>45.0</td>
<td>56.0</td>
<td>67.0</td>
<td>78.0</td>
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<td>HEIGHT (m)**</td>
<td>4.6</td>
<td>5.5</td>
<td>4.3</td>
<td>4.8</td>
<td>5.8</td>
<td>6.7</td>
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<td>5.9</td>
<td>6.9</td>
<td>7.8</td>
<td>6.1</td>
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<tr>
<td>DIAMETER (m)</td>
<td>2.3</td>
<td>2.3</td>
<td>3.2</td>
<td>3.2</td>
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<td>3.8</td>
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<tr>
<td>WEIGHT (kg)**</td>
<td>560</td>
<td>779</td>
<td>820</td>
<td>861</td>
<td>984</td>
<td>1161</td>
<td>690</td>
<td>801</td>
<td>915</td>
<td>1026</td>
<td>1475</td>
<td>1699</td>
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### Standard and Optional Equipment:

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<td>18504</td>
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<td>22988</td>
</tr>
</tbody>
</table>

### Access:
- external ladder: S S S S S S S S S S S S
- internal ladder: S S S S S S S S S S S S
- spiral stairs: S S S S S S S S S S S S
- roof stairs: S S S S S S S S S S S S
- crown stand: S S S S S S S S S S S S
- service catwalk: S S S S S S S S S S S S
- bottom access manhole: 0 0 0 0 0 0 0 0 0 0 0 0
- roof hatch: S S S S S S S S S S S S
- flat perforated floor: S S S S S S S S S S S S
- inside perforated hopper: S S S S S S S S S S S S
- air inlet: S S S S S S 0 0 0 0 0 0
- universal air inlet: 0 PP2 0 PP2 0 PP2 0 PP2 0 PP2 0 PP2 0 PP2 0 PP2 0 PP2 0 PP2
- extraction fan: 0 0 0 0 0 0 0 0 0 0 0 0
- air heater: 0 0.45kW 0 0.45kW 0 0.45kW 0 0.45kW 0 0.45kW 0 0.45kW
- roof exhaustor: S S S S S S S S S S S S
- water-filled manometer: S S S S S S S S S S S S
- temperature probe: 0 0 0 0 0 0 0 0 0 0 0 0
- central loading inlet: S S S S S S S S S S S S
- side loading inlet: S S S S 0 0 0 0 0 0 0 0
- bag filling device: S S S S S S S S S S S S
- anti-dynamic pipe of bag filling device: - - S - S - S - S - S - S -
- unloading sleeve: 0 0 0 0 0 0 0 0 0 0 0 0
- emergency outlet of grain: 0 0 0 0 0 0 0 0 0 0 0 0
- underfloor discharge convey: 0 0 0 0 0 0 0 0 0 0 0 0
- internal sweep auger convey: 0 0 0 0 0 0 0 0 0 0 0 0
- control module of the silo: 0 0 0 0 0 0 0 0 0 0 0 0

* the loading capacity for wheat with a density 730kg/m³ / 780kg/m³ for MB1140-1F, MB1514, MB14640W and MB14640W (WAP) related to the available volume of material gathered in the silo depends among others on the method of filling, bulk properties of the material, allowable maximum level of silo filling

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

*** net weight of silo components

S - standard, 0 - optional
WE DESIGN AND INSTALL FULLY INTEGRATED SYSTEMS FOR GRAIN STORAGE

4 x NBIN100W + 3 x NBIN1500W

PLEASE FIND OUR FULL OFFER:

- Flat Bottom Silos for Grain Storage
- Hopper Silos for Grain Storage
- Silos for Animal Feed
- Equipment for Feed Mixing Plants
- Devices for Grain Transportation
- Agricultural Sheds

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