

STORAGE OF CEREALS IN HORIZONTAL SILOS

The safest and most economical way of storing cereals, other seeds and fertilizers

The storage of cereals in horizontal silos represents an innovative, economical, practical and safe system. Millions of tons all over the world are stored thanks to this simple technology suitable for cereals, other seeds, fertilizer, etc.

The basic conservation principle is the use of plastic bags that are hermetically sealed so as to prevent the exchange of gases with the atmosphere; therefore, in their normal respiratory activity, the seeds inside the bags consume the oxygen present in the folds/pits and emit carbon dioxide. In other words, the cereal is conserved in a controlled atmosphere of self produced CO₂. This is an environment that inhibits the development of insects and mould.

This system offers important advantages compared with traditional storage methods:

- Minimum initial investment
- Elimination of maintenance and cleaning costs
- Elimination of insecticide treatments
- Very high hourly capability during either bagging or extraction
- Total flexibility in storage quantities subdivision

The storage system of cereals in horizontal polyethylene silos is a complete novelty for Italy. The storage system can be easily utilized in every reality on the only necessary condition of having at your disposal a surface to lean the bags. This technology represents the ideal solution for creating or expanding a storage centre, for individual farm business that are able to collect more than 500 tons of cereals per year, for contractors or groups of farmers that are able to manage significant grain quantities.



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Storage of cereals in horizontal silos



The storage system of cereals in horizontal polyethylene silos represents the most advanced preservation technology at the present time. It can be easily applied to every reality holding down both investments and operating costs. The whole system is based upon the creation of a "controlled" environment inside bags that inhibits the development of insects and mould, ensuring - at the same time and without any treatment - the ideal preservation of every kind of cereal, even those produced by organic agriculture.

POLYETHYLENE SILOBAGS

BoschiSilo

Silobags are the ideal solution for the storage of dry grain, forage and other grain products. Inside bags, preservation is attained without thermal or insecticide treatments of any kind.

The preservation principle is based upon the fact that an airtight environment is created inside such silobags, assuring an optimum preservation for 12 months and longer.



BOSCHI SILO
FOR ALIMENTARY USE - EUROPEAN UNION REGULATIONS N° 1825/11

TECHNICAL SPECIFICATIONS BoschiSilo

Material	Material: DOW POLISUR. The bags are made of three co-extruded layers of plastic film UV protected.										
Warranty	12 months										
Sizes thickness 230/235 micron length 60 or 75 meters	<table border="0"> <tr> <td>ø 6 feet (1.83 m)</td> <td>capacity: 85/110 ton</td> </tr> <tr> <td>ø 8 feet (2.44 m)</td> <td>capacity: 155/200 ton</td> </tr> <tr> <td>ø 9 feet (2.74 m)</td> <td>capacity: 200/250 ton</td> </tr> <tr> <td>ø 10 feet (3.05 m)</td> <td>capacity: 240/310 ton</td> </tr> <tr> <td>ø 12 feet (3.66 m)</td> <td>capacity: 350/450 ton</td> </tr> </table>	ø 6 feet (1.83 m)	capacity: 85/110 ton	ø 8 feet (2.44 m)	capacity: 155/200 ton	ø 9 feet (2.74 m)	capacity: 200/250 ton	ø 10 feet (3.05 m)	capacity: 240/310 ton	ø 12 feet (3.66 m)	capacity: 350/450 ton
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Products	Dry grains: soft wheat, durum wheat, maize, sorghum, soybean, rice, barley, sunflower, oats, every grain product. Wet grains: grains of any kind, silage, mush, by-products of industrial processes. Forage										
Advantages	Easy and fast harvest, very low storage costs that reduce transport/storage charges, possibility to store small lots, compatibility with organic product, absence of chemical treatments.										

GRAIN BAGGER

Machine for bagging cereals in horizontal plastic silos

Boschi 2230 - Ø 9 feet Boschi 2260 - Ø 12 feet

The grain bagger is a machine that ensures the correct filling of horizontal polyethylene silos. With this machine, the grains that are loaded from above are directed to the silobag by means of a horizontal auger that is driven by the tractor power take-off. The machine movement is ensured by the grains pushing against its internal wall.



AUGER WAGON

Machine for grain transport and unloading

Boschi Grain 15000 LITRES Boschi Grain 20500 LITRES



Thanks to auger wagons, it is possible to take full advantage of the high performance offered by baggers and bag unloaders without being limited by the conventional means of transport.

SIDE LOADING DEVICES FOR GRAIN BAGGER

Machine for bagging cereals in horizontal plastic silos

Boschi CL1 and Boschi CL2



The BOSCHI CL1 and CL2 devices, which have been designed by Boschi Servizi, can be installed on Boschi 2230 baggers; the bagger can thus be directly coupled to conventional means of transport, adding a more reduced investment to the system efficiency.

GRAIN BAG UNLOADER

Machine for unloading dry grains from horizontal plastic silos

Boschi EA250



The bag unloader is the machine that is used for recovering the grains kept inside the silobag, by loading them on a means that is placed next to it. It is driven by the tractor power take-off and it is basically made up by: a horizontal auger conveyor, a roller that winds the open bag and the unloading auger.

SELF-PROPELLED GRAIN BAGGER

Machine to bag cereals in horizontal plastic silos

Boschi AP09 - Boschi AP12

The machine, designed by Boschi Servizi, is equipped with a state-of-the-art silent engine, an independent propulsion system powering a hydraulic circuit and an automated driving device.



GRAIN AND SILAGE BAGGER

Machine for bagging grains in horizontal plastic silos

Boschi R6

The bagger is a machine driven by the power take-off of an agricultural tractor of average power (45 hp) that fills the silobag by using an auger driven by a hydraulic motor. Grains may be loaded from above by means of the auger wagons, while silage is introduced sideways through suitable devices.

