

# A.B.S.

Silo- und  
Förderanlagen  
GmbH

... the number one in alphabet of silo technology. With more than 25 years of experience and over 45.000 sold flexible silos



Flexible construction



Simple filling

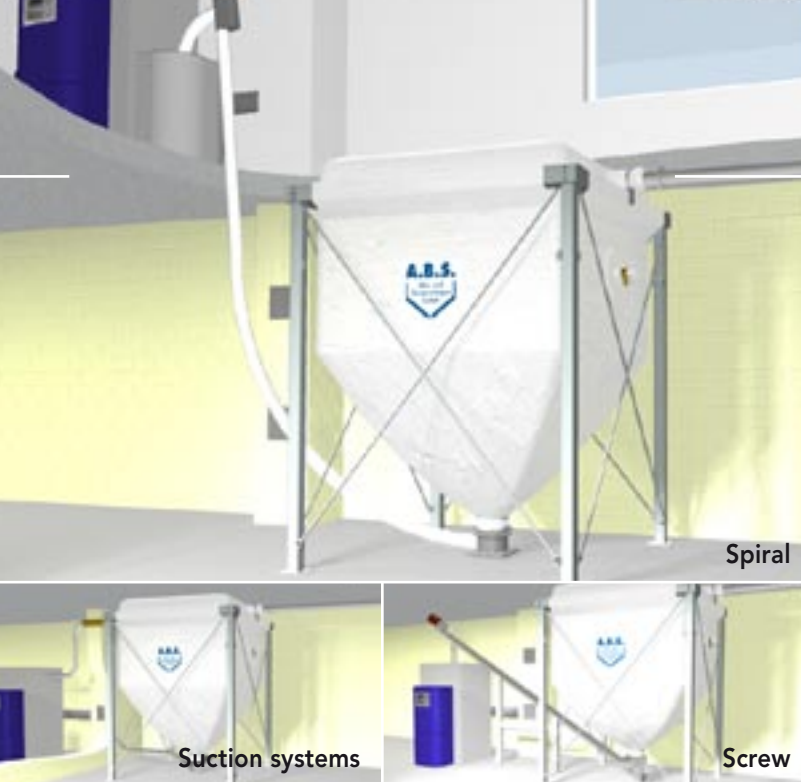
... the silo solution for  
wood pellet heating systems

⟨ ... easy to assemble ⟩

⟨ ... long-lasting ⟩

⟨ ... economical ⟩

# www.ABS-Products.de



< ... Installation is possible with different discharge systems, depending on your requirements. >

## < ... The advantages of A.B.S. - silos >

- Made of very strong and durable high-tech polyester fabric, which has been tested for many years in industrial applications
- Seven-fold safety for seams and fabric
- Simple and largely dust-free filling
- Simple and quick assembly. Two workers require approx. 2 hours. In comparison, the erection of a bunker system requires approx. 2 days and causes additional cost expenditure for statics calculations, materials, vapor barrier, insulation and dust-tight lining of the bunker
- No condensation formation and temperature fluctuations
- Optimised use of space, i.e. manufactured in accordance with your specifications square or rectangular shape
- Maintenance-free
- Filled level visible from outside
- Individual filling and discharge possibilities
- No UV-protection measures required
- ... and fast delivery



## < ... The optimum fuel storage for any type of wood pellet heating system >

Capacity: to 30.0 t

**For the storage of wood pellets are flexible silos and storage containers made of technical fabrics, so called sack silos, the ideal solution.**

A.B.S. - silos are made of very strong and durable high-tech polyester fabric. This is co-ordinated with wood pellets, largely dust-tight and has a permanent electrostatic dissipation. The pellets can be filled gently thanks to the flexible walls. It is also possible to equip high-tech polyester fabric in accordance with fire class DIN 4102 B2.

## < ... Simple filling, flexible location >

The wood pellets are delivered in a tanker and injected into the sack silo. The 30 m long filling hose from the tanker makes it possible to use the silo almost anywhere in the cellar. In this case, it is necessary to ensure that the storage area borders the outside wall, if possible.

### **Pellet quality:**

A.B.S. wood pellet silos are exclusively constructed for the storage of wood pellets. Use quality pellets in accordance with DINplus or ÖNORM M7135 with a diameter of 6 mm



# SILO SOLUTIONS FOR PELLETS



Screw box

Spiral conveyor system

Exhausting box

< ... for more accessories please refer to our current price list or to our website: [www.abs-products.de](http://www.abs-products.de) >

## < ... Trough silos >

Trough silos feature the same properties and advantages as bag silos, but their design rather resembles that of a hopper with sloped bottom.

In particular in old buildings there are narrow and low rooms where it is difficult to accommodate storage facilities. Therefore, trough silos offer an optimum alternative. Thanks to their construction trough silos are filled up to under the room ceiling.

The shape of the silo enables an excellent exploitation of the used room. The silo can be operated with suction, screw box and spiral conveyor system. The easy and fast installation is the advantage compared to a bunker with sloped bottom.



## < ... Spiral conveyors >

Spiral conveyors – in the same way as screw-type conveyors - ensure a low-noise, dust-free transport of wood pellets. This also works in bends and slopes. The energy consumption is very low. However, spiral conveyors are more flexible than screw boxes and the soft movement of the spiral protects the pellets from damage.

A combination of suction conveying and spiral is also possible. With the spiral a defined quantity of pellets is conveyed to an extraction point.

In a cascade arrangement several silos are connected by means of a continuous spiral conveyor.



## < ... Technical Information >

### Silo size and silo height:

The size of the silo depends on the building-heat load. It should be chosen so that an annual requirement can be stored. There should be a gap of approx. 10 to 15 cm between the silo and the wall in order to permit ventilation behind it. The silo height naturally depends on the height of the room. The distance between the steel supports and the ceiling should be 20 to 25 centimetres, because the filling pipe will take up this space. Since A.B.S. - silos are flexible adaptable to your needs as well as the room size, we can supply you with the ideal silo for your requirements.

### Filling and removal:

Filling is from the side. The silos possess impact protection, thereby achieving a better degree of filling than would be case with central filling. The removal effected in accordance with your requirements.

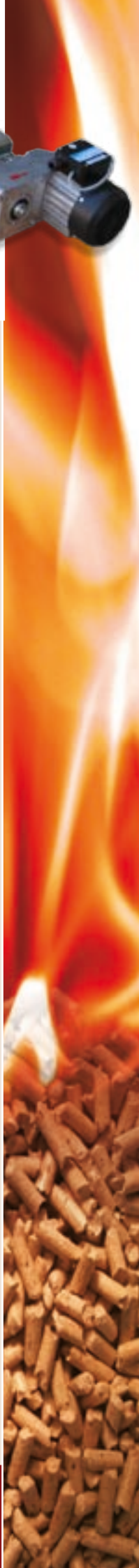
### Sub surface:

A stable sub surface is a prerequisite for the erection location.

### State promotion programmes for heating with wood pellets:

Information available from the Federal German Ministry for Economics and Export Control [www.bafa.de](http://www.bafa.de) and the German Solar Power Association [www.dgs.de/kfw](http://www.dgs.de/kfw) as well as the Deutsche Energie-Pellet-Verband e. V. [www.depv.de](http://www.depv.de)

Please observe the current heating regulation for your state.





◁ Example of assembly ▷

## ◁ ... Simple to assembly, high flexibility ▷

The well-perfected construction guarantees extremely short set-up times for our silos. Silos are only delivered on Euro-pallets. Two persons require 2 hours for the assembly.



## ◁ ... A.B.S. - a strong team with more than 25 years of experience ▷

More than 45,000 installed A.B.S. silos throughout Europe give you the safety of having found a competent partner for your project. As experts in the construction of flexible containers, our team knows what is important.

Our team is happy to advise you with regard to planning your silo system and can give you some tips and make suggestions on how you integrate A.B.S. silos into your workflow while making optimum use of the available space. This can save you time and a lot of money.

**Our team is happy to advise you with regard to planning your system.**



## ◁ ... this is how you can find us ▷



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