

# HAVE MORE STORAGE IN STORE WITH US.

CUSTOMISED A.B.S. FLEX-SILOS  
FOR THE INDUSTRY.



WE MAKE IT FIT



# WE MAKE IT FIT.

OWNER-RUN, FLEXIBLE AND BASED ON  
PARTNERSHIP: A.B.S. FROM OSTERBURKEN.

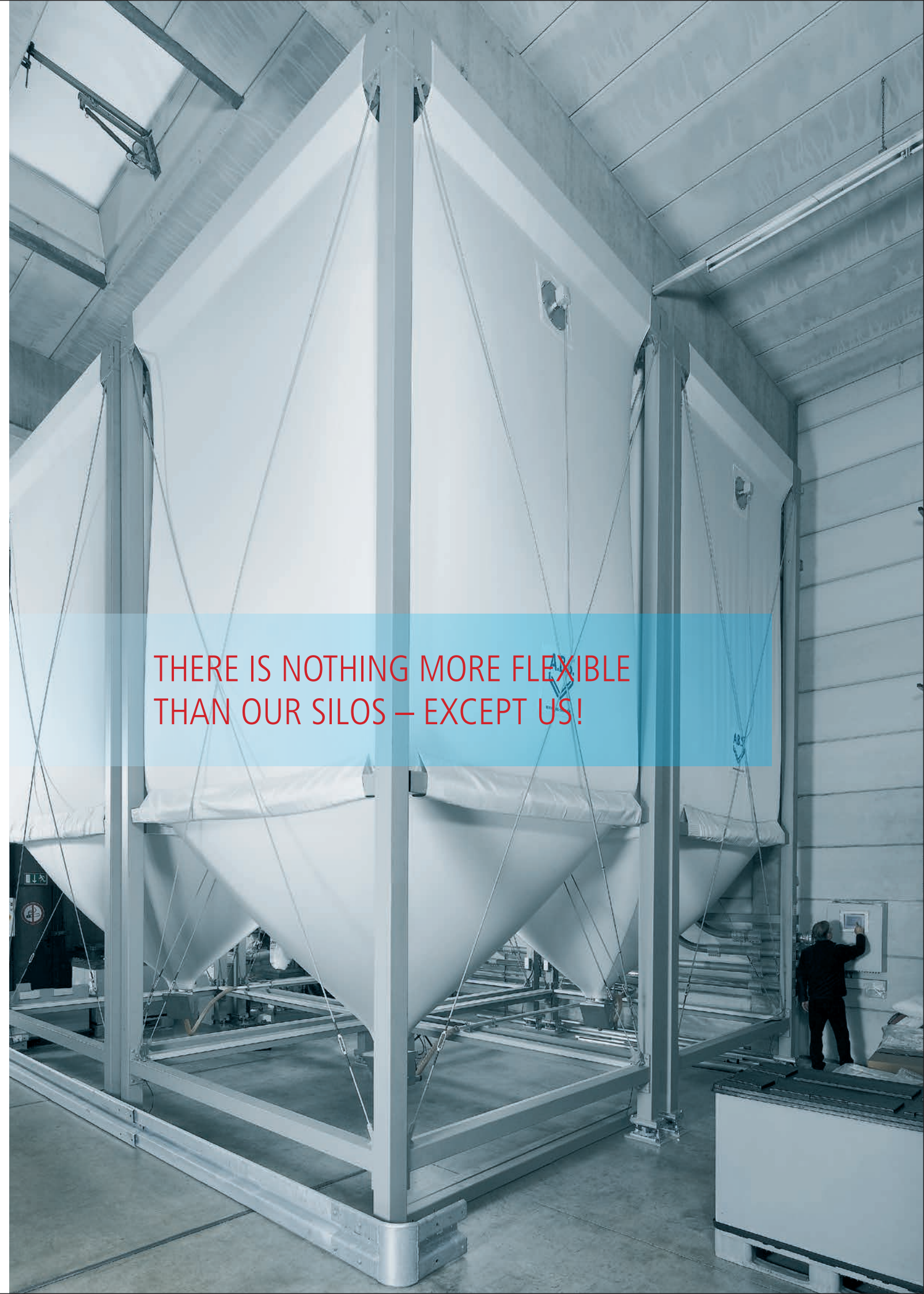


Some people still think of huge, heavy, immovable metal towers when they hear the word "silo". Flex-Silos from A.B.S., however, are much more compact, lightweight and flexible.

Our company founder Adolf Lesk started to specialise in a new silo technology as far back as the 1980s. The idea was to use textiles instead of metal – equally sturdy and resilient, but much more flexible and sustainable. A design that turned out to be successful: Today, the name A.B.S. is renowned throughout the world for high-quality flexible silos, with around 100,000 units successfully installed in industry and agriculture and for wood pellet storage.

Our passion for silos does not end with standard versions. Whatever your bulk goods, whatever your premises: We provide individual solutions tailored to your requirements – guaranteed. Because we have an endless number of options for your customised Flex-Silo storage solution.

THERE IS NOTHING MORE FLEXIBLE  
THAN OUR SILOS – EXCEPT US!





# WE GET MORE VOLUME OUT OF ANY SPACE.

A.B.S. FLEX-SILOS FOR THE INDUSTRY.

## Your benefits:

- Efficient, safe storage of your bulk goods
- Usage similar to metal silos
- Optimum use of space
- Can be installed even in areas with restricted access
- Optimum discharge properties
- Fabric and shape adapted precisely to the respective bulk material
- Optionally equipped with a discharge aid for bulk materials with challenging flow properties
- Long service life, at least 7-fold safety in the seams and fabric
- Easy cleaning
- Space-saving shipping in individual parts, no heavy-goods transport
- Installation without complex building permits or construction processes
- Optimum price-performance ratio

Efficiency, economy and safety are the key factors for industrial processes. This also applies to the storage of bulk materials. A.B.S. Flex silos make an essential contribution to this.

They are available in square or rectangular designs and in any required size to ensure optimum use of the available space. And in contrast to metal silos, they can also be installed in areas where access is difficult. The high-strength, durable TechnoTex fabric is specially adapted to the respective bulk material. Even the most challenging and delicate applications are possible, e.g. in the food or chemicals industries. And, last but not least, A.B.S. Flex-Silos impress with their excellent price-performance ratio.

Plenty of good properties that make storing your bulk materials less complicated, more efficient and more cost-effective.



# OUR PLASTICS SILOS ARE CUT FROM THE RIGHT CLOTH.

A.B.S. FLEX-SILOS FOR PLASTICS.



A consistently high quality of your plastics products is important to you. We ensure that the bulk materials used can be continuously stored in the right conditions.

A.B.S. Flex-Silos made of exclusive high-strength, breathable fabric is ideal for plastics granulates such as PVC, PP, PA, ABS, POM, PE and PET. For optimum use of space, the design and features are adapted to the respective bulk material with respect to the diameter of the discharge opening, cone incline and geometry. With in-house storage and a controlled room climate, the weather-related temperature fluctuations (including condensation) associated with outdoor silos do not occur: This reduces the costs required for heating and drying the materials, while ensuring a constant quality of the plastic granulate.

In addition to all this, A.B.S. Flex-Silos offer a very long service life and an excellent price-performance ratio.

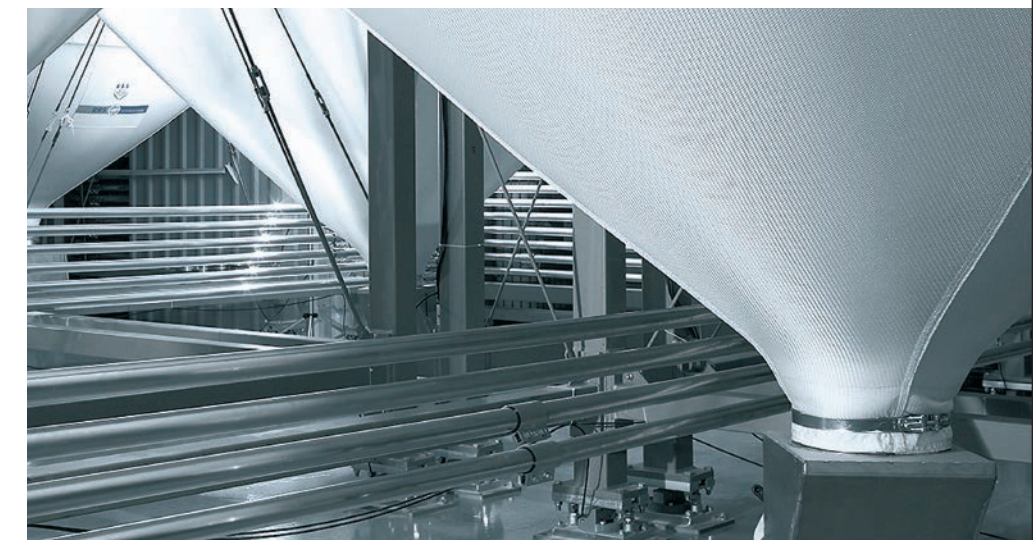


**Version with  
exclusive  
fabric from  
A.B.S.**





ENDLESS OPTIONS  
FOR MORE SPACE.  
A.B.S. FLEX-SILOS IN USE.





# A PERFECT FIT: OUR FLEX-SILO.

A.B.S. FLEX-SILOS FOR EPS AND EPP.



Plastic foams such as expandable polystyrene (EPS) and expandable polypropylene (EPP) are sensitive materials that must be stored accordingly. Ideally suited for this is an indoor storage system with A.B.S. Flex silos.

The design and features of the silos – carrier fabric, cone incline, geometry, discharge opening diameter – are individually adapted to the individual product to be stored. The air-permeable, breathable and permanently electrostatically dissipative polyester fabric of the silos allows the foamed EPS/EPP product to stabilise and degas. In addition, it also supports the drying of the stored materials.

A.B.S. Flex-Silos offer a large storage capacity – up to 300 m<sup>3</sup>. With their great flexibility when it comes to size and shape, they ensure maximum use of space, even on a small footprint. And what is more, indoor storage does not require any expensive foundations or building permits like outdoor silos do.







# EVERYTHING INCLUDED. MOBILE AND STATIONARY.

A.B.S. FLEX-CONTAINERS FOR TRANSPORT AND TEMPORARY STORAGE.



Storing bulk materials reliably is one thing, making transport and temporary storage equally reliable is another. This is where A.B.S. Flex-Containers come in as an optimum solution. Available with standard capacities from 0.5 to 2 m<sup>3</sup>, they are equipped for all logistics task in-house and outside the company premises.

They consist of a steel frame, a flexible container bag and a shut-off device and can be stacked using stacking corners and feet to achieve maximum use of space in any situation. An additional lifting attachment and transport aids make them suitable for all crane and HGV applications.

Just like the A.B.S. Flex-Silos, our Flex-Containers are also supplied with a fabric that is individually tailored to the bulk material and can additionally be equipped with appropriate discharge aids.



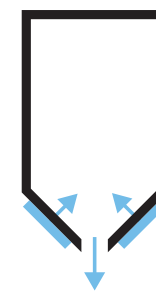
# IN, OUT. PERFECT OUTCOMES WITH A.B.S.

RELIABLE DISCHARGING WITH HIGHLY  
EFFICIENT DISCHARGE AIDS.

Sometimes things just do not run as smoothly as expected. And the special product properties of bulk materials can sometimes cause issues with the discharge flow, resulting in a shutdown of the plant in the worst case. A.B.S. discharge aids are the perfect preventive measure: Adapted precisely to the bulk material at hand, these highly effective devices ensure reliable, safe discharge.

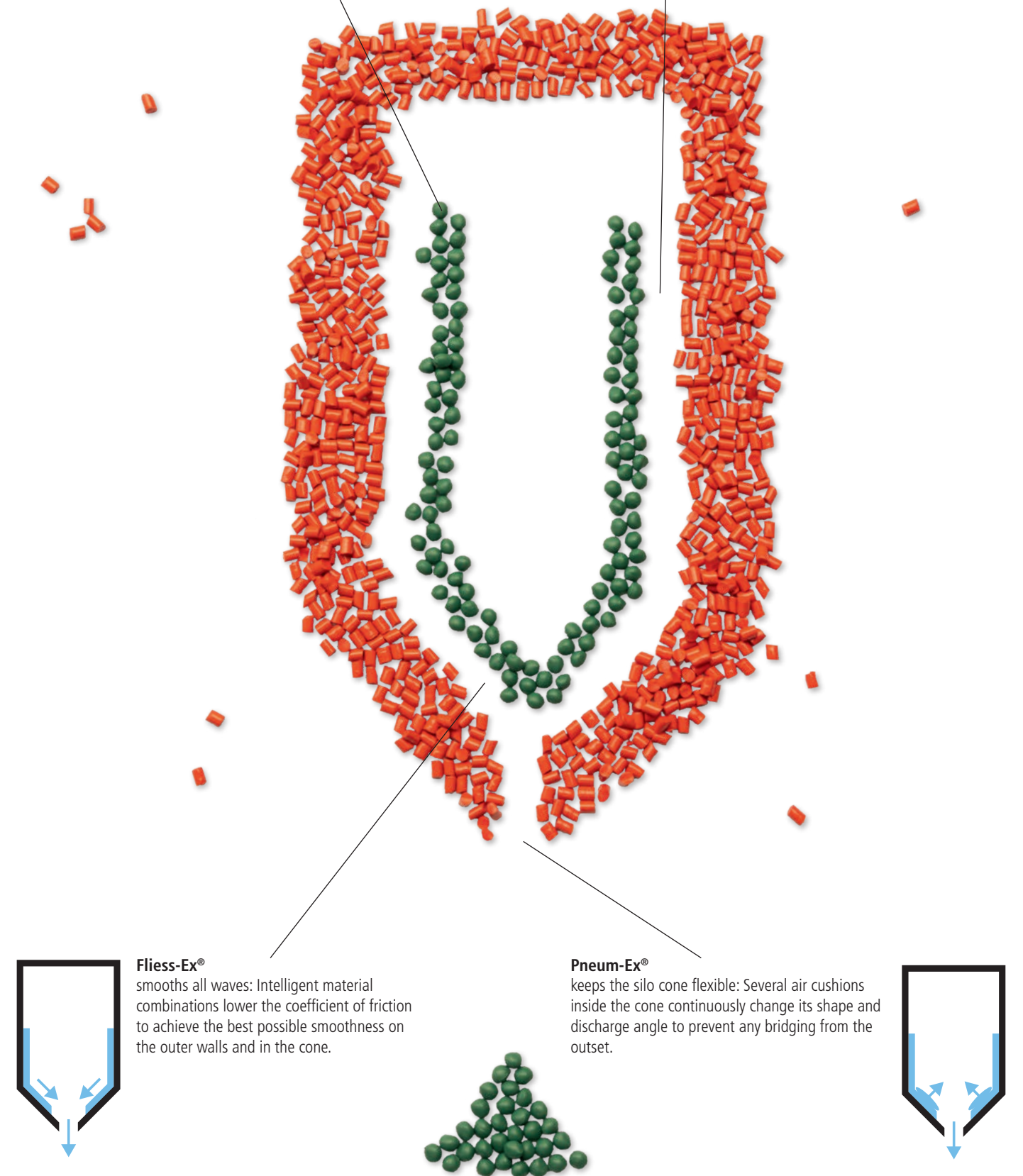
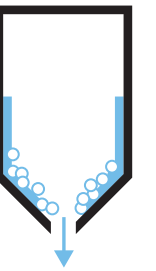
The discharge aids ensure gentle handling of the stored goods and prevent crushing and breaking. The silo remains easy to clean as the devices have no parts that project into the silo. If they were not used from the outset, A.B.S. discharge aids are also ideal for retrofitting on existing metal, wood or concrete containers.

Gentle, effective, reliable: A.B.S. discharge aids ensure that things run smoothly. Guaranteed.



**Walk-Ex®**  
prevents bridging in the bulk material: Periodic injection and extraction of air in the air retention cone changes the geometry of the cone, breaking up bridging and ensuring free flowing of the bulk material.

**Fluid-Ex®**  
for targeted air injection: With a highly flexible textile combination, this discharge aid reintroduces the air that escaped during storage, restoring good flowability of the bulk material.



**Fließ-Ex®**  
smooths all waves: Intelligent material combinations lower the coefficient of friction to achieve the best possible smoothness on the outer walls and in the cone.

**Pneum-Ex®**  
keeps the silo cone flexible: Several air cushions inside the cone continuously change its shape and discharge angle to prevent any bridging from the outset.



## AROUND THE GLOBE

A.B.S. Flex-Silos and Flex-Containers are used all over the world, wherever bulk materials need to be stored and handled quickly, efficiently and reliably. With flexible high-tech fabric and customised to the specific requirements, they are suitable for a wide range of areas of application. Weights up to 50 t and volumes up to 200 m<sup>3</sup> are no problem.

## MANY INDUSTRIES, ONE SOLUTION

Storing EPS/EPP bulk materials correctly and reliably is a challenge in many different industries. Whether construction or insulation industry, packaging or recycling industry, seat or nursing cushion manufacturing: With customised Flex-Silos and almost 40 years of experience, A.B.S. is ready for any challenge.

## ALL TYPES OF BULK MATERIALS

There is a vast variety of bulk materials and small loose goods. We have listed a selection below, and a comprehensive database can be found at [www.abs-silos.de](http://www.abs-silos.de). Cannot find your product? Not a problem. We can examine your specific application and find a customised solution for you. Because, as you know: There is nothing more flexible than our silos – except us!

# NO MATTER FOR WHOM. NO MATTER FOR WHAT.

OUR FLEX-SILOS MAKE IT POSSIBLE.

activated carbon	rubber (granulate)	regenerated polymers	PVC powder	animal feed
aluminium powder	oats	polymer granulate	quartz sand	clay, loam (dry)
apple pectin	rolled oats	milled polymer	rice	TPE granulate
flavouring agents	oatmeal	corn chips	raisins	flush-mounting junction
bauxite	urea	cornmeal	sawdust	boxes
pumice (powder)	wood flour	cornstarch	salt	packaging chips
sweets	dog food	malt (dry)	SBS	vinyl resins (powder)
dental plaster	hydrotalcite (granulate)	ground malt	chocolate powder	vitamins
fertiliser (granulate)	coffee beans	flour	silica gel	washing powder
iron oxide	coffee powder	nuts	silicone carbonate	wheat flour
EPP	powdered limestone	perlite (mineral)	sodium carbonate	zinc oxide
EPS	calcium carbonate (granulate)	peppercorns	injection moulding parts	sugar (crystals)
colour pigments	kaolinite (dry)	phenolic resin (powder)	starch (granulate)	onions (chopped)
fish food	biscuit mixtures	polyamide	starch (powder)	
fish meal	adhesive granulate	polyester resins (flakes)	polystyrene beads	
feedstuff	bran	polyester chips	tobacco leaves	
grain	garlic powder	polystyrene (granulate)	tobacco powder	A comprehensive list of
spice mixtures	cork (finely milled)	polystyrene (powder)	raw materials for pills	bulk materials can be
glass beads	chalk (powdered)	powder paint	talc	found on our website:
grass seed	synthetic resin (powder)	PVC dryblend	tea	<a href="http://www.abs-silos.de">www.abs-silos.de</a>





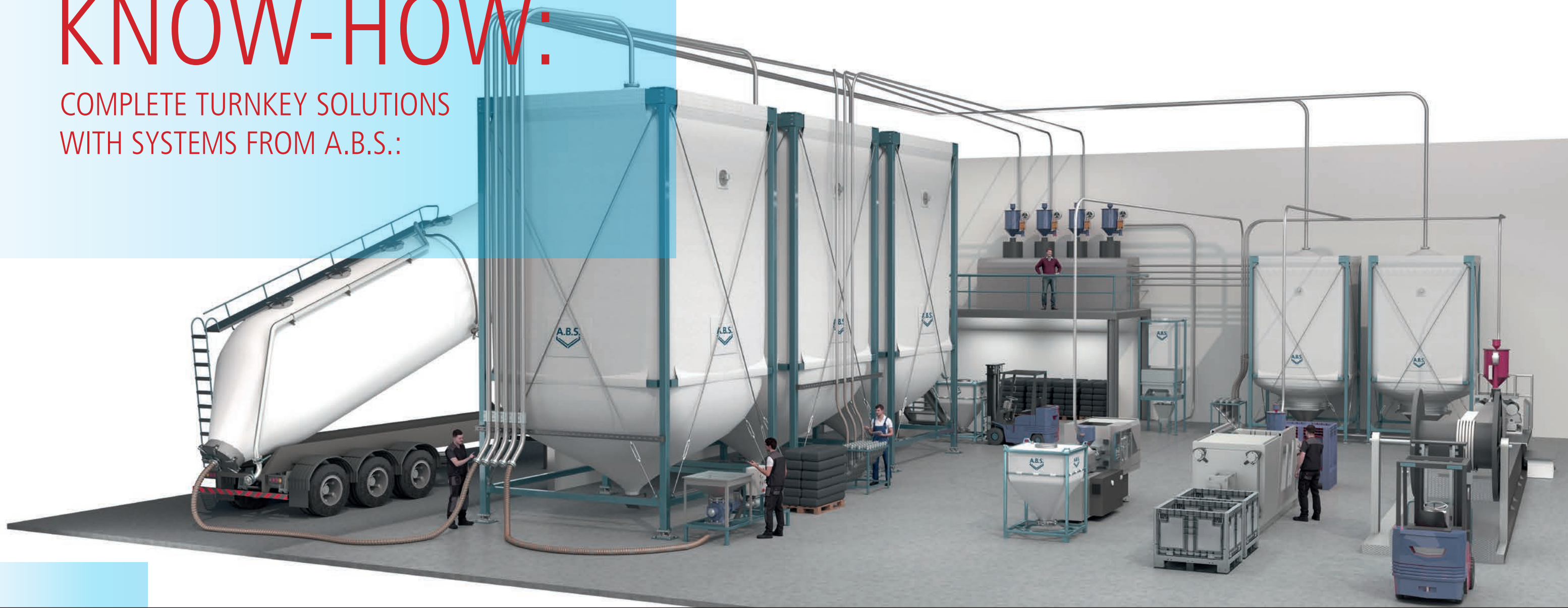
# A SUCCESSFUL SYSTEM: MADE OF FABRIC, STEEL AND KNOW-HOW:

COMPLETE TURNKEY SOLUTIONS  
WITH SYSTEMS FROM A.B.S.:

Plant engineering requires a variety of different skills: consulting, planning, design engineering, assembly, service, know-how, expertise... A.B.S. combine all these skills.

We offer complete turnkey solutions. It all starts with in-depth consulting to examine all aspects of the project and find the right solution. We look at the task at hand as a whole, which allows us to perfectly adapt the required control, fill level, weighing, conveying and dosing technology to the overall storage solution.

Whether new systems, conversions or retrofits: A.B.S. supply a complete storage solution, from development and planning, design engineering and assembly to commissioning and service. Everything from a single source, with a proven system.







# ALWAYS THE RIGHT FABRIC.

AT LEAST 7-FOLD SAFETY,  
ALWAYS RIGHT AT A.B.S.:  
OUR HIGH-TECH FABRICS



Everyone feels better in a tailored suit – including and especially your bulk materials, because they are as different as us humans. That is why we equip our Flex-Silos with the fabric that suits the characteristics of the bulk material.

The high-performance fabric used by A.B.S. is not only highly durable, robust, breathable and dust-tight, but also extremely versatile: coated, uncoated, permanently electrostatically dissipative, food-safe, UV-resistant, ATEX compliant, ...

In total, we use over 20 different variants in our production.

The high-performance fabric with at least 7-fold safety in the seams and weave has been used successfully for decades. Good to know: Independently of the manufacturers' certificates, we have the durability of the fabric and seams tested regularly by the Hohenstein research institute. Added safety for you – and for your bulk materials!



# MORE ROOM FOR BULK MATERIALS. MORE ROOM FOR PARTNER- SHIPS.

Around 100,000 installed A.B.S. Flex-Silos, thousands of satisfied owners: great proof of the quality of our products, and of the partnerships that we maintain with our customers. But see for yourself...





# HOW FLEXIBLE CAN WE BE FOR YOU?

WHICH FLEXILO STORAGE SOLUTION  
IS RIGHT FOR YOU? LET'S FIND OUT  
TOGETHER. WE ARE LOOKING FORWARD  
TO YOUR ENQUIRY.



A.B.S. Silo- und Förderanlagen GmbH  
Industriepark 100, 74706 Osterburken  
Germany  
Phone +49 6291 6422-0  
Fax +49 6291 6422-50  
Email [info@abs-silos.de](mailto:info@abs-silos.de), [www.abs-silos.de](http://www.abs-silos.de)



WE MAKE IT FIT