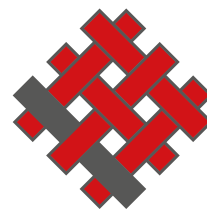




**Silos for Biomass  
(wood pellets)**



allg. **Silotec**



**EXPIERIENCE, VITALITY AND DYNAMIC**

**... WE HAVE THE IDEAS AND SOLUTIONS  
FOR YOUR NEEDS AND REQUIREMENTS!**

High-tech fabric Silos, conveying technology, tailor-made products

Complete solutions for industrial plants, biomass industry and agriculture

Fabric and steel structure „Made in Germany”





## ALLG. SILOTEC – EXPERIENCE MEETS STARTUP-IDEA

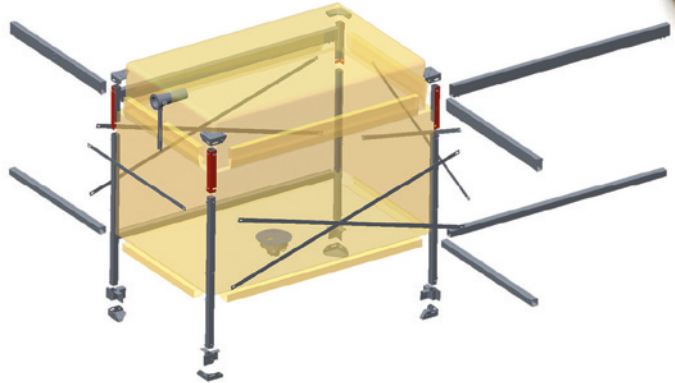
Although only founded in 2009, we proudly count on decades of professional experience in working with fabric and bulk goods, an experienced international and multilingual team with representatives from Germany, Italy, Spain, Russia and many other nations, as well as numerous patents for product ideas and innovative manufacturing methods.

Arisen from a traditional company, our expertise meets a unique market knowledge, a lot of creativity and a visionary management, whos focus is increasingly oriented onto the international market.

Already today, half of our production is being exported. From *high-tech fabric silos for wood pellets storage*, through complete solutions for industrial and food processing plants,



*special discharge systems with controller, christmas decorations for international companies, covers for camper vans and outdoor equipment, prototype layouts for the well known artist Christo, up to special rescue-mats for the rescue of elks, moose or buffalos* – we literally offer you tailor-made solutions for all kinds of different situations. This, at the same time, always as simple and functional as possible.



We work with modern manufacturing methods in the textile processing. For example, we are able to provide an exact laser cutting technology, a rotating knife, a hot knife or punching. For the further processing of the fabric, our sewing machines can be perfectly adjusted to each different type of fabric or if required, we also have welding technology. For our steel structures we work with special punching, cutting and joining technologies and for its pretreatment we use our own semi-automated manufacturing installation followed by a powder coating system. All these methods are the guarantee for a cost-effectiveness, individually adaptable production at the highest level of quality. Our lean structures, interdisciplinary skills, CAD-supported design and manufacturing, our own technical lab and testing center as well as our industry 4.0 orientation in all our processes – enable us to offer innovative, needs- and market-oriented products which are both, figuratively and literally „Made in Germany“.

## ASSUMING RESPONSIBILITY – THINKING AND ACTING SUSTAINABLY

- Entire on-site manufacturing in Baden-Württemberg assuring fair trade and fair production conditions
- Multicultural team with several nationalities and different languages
- Assuming global social responsibility by promoting and developing employees with an immigrant background
- Our company is not only recognized and certified as a vocational training provider, we also have been awarded by the state of Baden-Württemberg for this
- Sustainable energy production with CHP, photovoltaic and pellet heating system
- Environmentally conscious use of production materials, solvent-free procedures, widely PVC-free materials





## 12 REASONS FOR CHOOSING SILOS FOR WOOD PELLET STORAGE FROM allg. Silotec GmbH



Ready to be assembled, no additional components required



Only one type of spanner required to assemble (19 mm)



Short assembly time



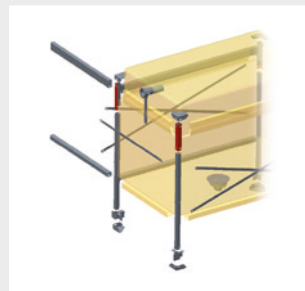
Dust-free, even during the filling of the silo



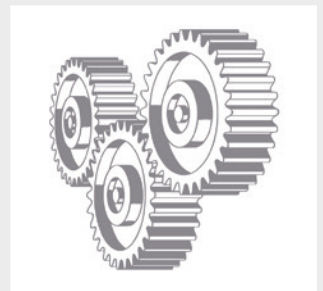
Modular concept with different sizes (individual adjustments possible)



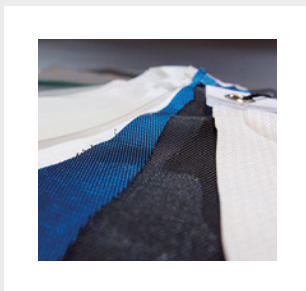
Quality inspection on-site through our own technical center



Disassembly and reconstruction can be easily done



Compatible with all popular boilers and stoves



According to size, medium and weight we select the proper High-tech fabric



Innovative products with proven technology



Low dirt pick-up and high UV-resistance due to fabric construction and colour



Quality  
Made in Germany

### Always\* part of our delivery:

- Silo bag made of UV-protected high-tech fabric
- Integrated impact and wear protection inside the silo bag
- Powder-coated steel structure
- Filling nozzle (D = 18 cm) and inspection opening (D = 35 cm)
- Filling tube 4" including fixation and fastening elements; height adjustable, for horizontal filling, with earthing connection
- Coupling/connector (e.g. 4" Storz-A) with lid, chain and clamping strap
- Rectangular silos have the filling tube as standard on the short face side

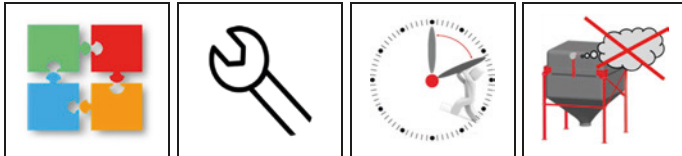
\* Except for the do-it-yourself, the ECO and the MIDI range models.



## HPS „RATIO“

The classic high quality silo **HolzPelletSilo** for a reasonable price!

Available in many different sizes and variations.



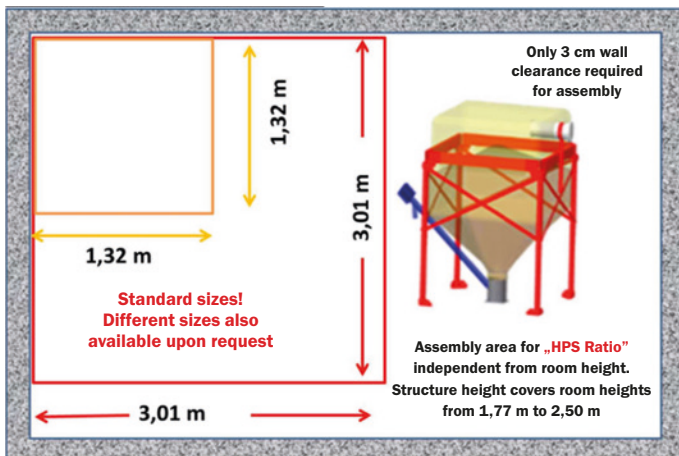
Ready to be assembled, no additional components required

Only one type of spanner required to assemble (19 mm)

Short assembly time (approx. 30 min depending on size and location)

Dust-free, even during the filling of the silo

### Dimensions and sizes



Basic range available in many sizes from 3 m<sup>3</sup> to 11 m<sup>3</sup>

(corresponds arithmetically approx. 2,2 t to 7,2 t wood pellets with a bulk density of 0,65 t/m<sup>3</sup>)

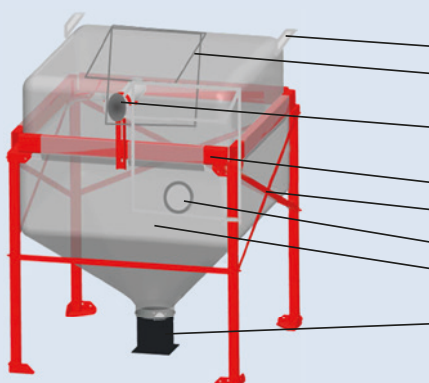
Detailed information on dimensions and capacities can be found in the technical data sheet **HPS „RATIO“**.

\*Additionally included in standard delivery:

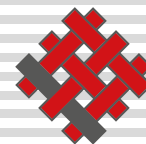
- Discharge hopper D= 350 mm including clamping strap and built-in suction point unit or, if desired, a discharge hopper for an auger (without the auger)



Due to our „modular concept“, special sizes and **customized designs** are available upon request.



1. Silo top loops for ceiling fixation
2. Integrated impact and wear protection (coated fabric) inside the silo bag, from the top to the backside wall
3. Filling tube including fixation and fastening elements as well as coupling/connector with lid, chain and clamping strap
4. Steel structure with fixation and connecting elements
5. Diagonal steel reinforcements/stiffeners
6. Inspection opening D=35cm
7. High-tech fabric with antistatic properties, high UV-resistance, dirt-repellent and heat-setted/thermo-fixed
8. Discharge hopper with optionally built-in suction point unit (standard) or mechanic discharge device (for an auger)

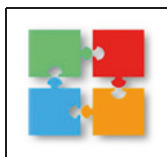


allg. **Silotec**

5

## VOLUMMAX „VM”, „VM-R1”, „VM-R2”

The innovative flat bottom silo **VOLUMMAX**  
for maximum utilization of volume!  
(up to 86% use of the available room volume)



Ready to be assembled, no additional components required



Only one type of spanner required to assemble (19 mm)

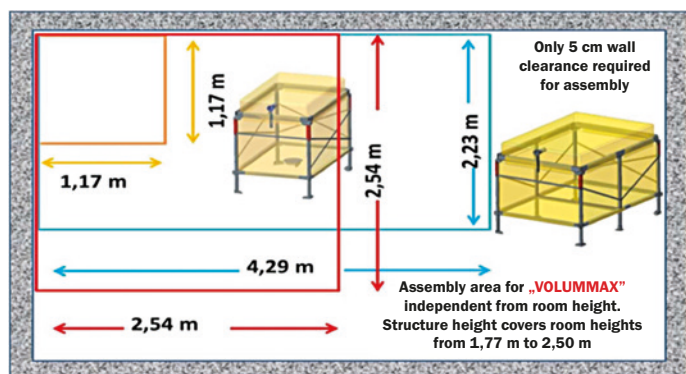


Short assembly time (approx. 60 min depending on size and location)



Dust-free, even during the filling of the silo

### Dimensions and sizes



Basic range available in many sizes from 2,1 m<sup>3</sup> to 18,4 m<sup>3</sup>

(corresponds arithmetically approx. 1,3 t to 12,0 t wood pellets with a bulk density of 0,65 t/m<sup>3</sup>)

Detailed information on dimensions and capacities can be found in the technical data sheets **VOLUMMAX „VM”, „VM-R1” and „VM-R2”**.

The squared VOLUMMAX „VM” and the rectangular VOLUMMAX „VM-R1” have only one vibro-discharge hopper. The rectangular VOLUMMAX „VM-R2” requires two vibro-discharge hoppers, which are controlled by an electric switching unit (reverser).

Easy access to discharge hopper at any time!



**VOLUMMAX „VM”**



**VOLUMMAX „VM-R2”**

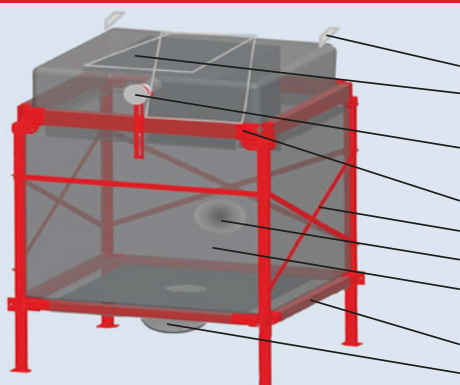


\*Additionally included in standard delivery:

- Tensioning bars with fixation elements
- Vibro-discharge hopper(s) with dust separator
- Electric switching unit (reverser) – only for the VM-R2

**Optional:**

- Dust collector nozzle with filter.
- If required and upon request, the filling tube can also be placed on the long face side of the silo.



1. Silo top loops for ceiling fixation
2. Integrated impact and wear protection (coated fabric) inside the silo bag, from the top to the backside wall
3. Filling tube including fixation and fastening elements as well as coupling/connector with lid, chain and clamping strap
4. Steel structure with fixation and connecting elements
5. Diagonal steel reinforcements/stiffeners
6. Inspection opening D=35cm
7. High-tech fabric with antistatic properties, high UV-resistance, dirt-repellent and heat-settled/thermo-fixed
8. Tensioning bar
9. Vibro-discharge hopper with dust-separator

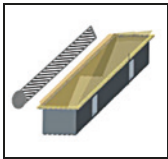
DPMA : DE: 20 2014 009 726.7



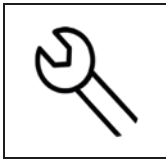
## BPS „LINEAR”

The long conical bottom silo **BunkerPelletSilo** for elongated rooms!

Available in many different sizes and variations.



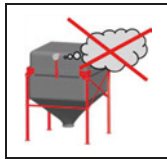
Pneumatic and mechanic discharge trough



Only one type of spanner required to assemble (19 mm)

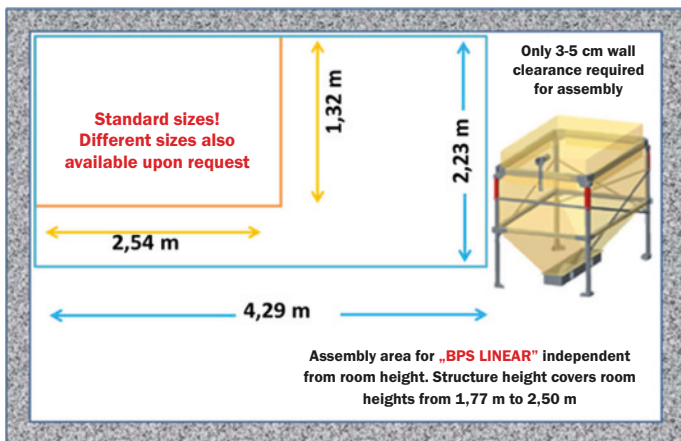


Compatible with all popular boilers



Dust-free, even during the filling of the silo

### Dimensions and sizes



Basic range available in many sizes from 4,2 m<sup>3</sup> to 16,2 m<sup>3</sup>

(corresponds arithmetically approx. 2,6 t to 10,5 t wood pellets with a bulk density of 0,65 t/m<sup>3</sup>)

Detailed information on dimensions and capacities can be found in the technical data sheet **BPS „LINEAR”**.

\*Additionally included in standard delivery:

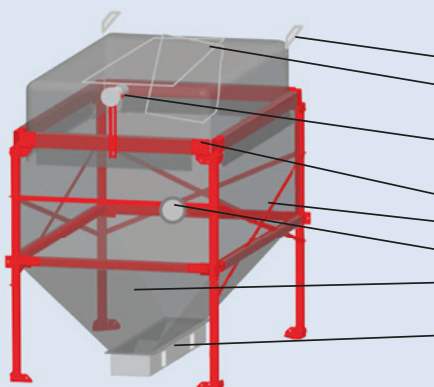
- Outlet adaptable for either auger conveyor trough or for suction conveyor trough (2 to 4 suction points)
- Expanding bars with fixation elements



Due to our „modular concept”, special sizes and **customized designs** are available upon request.

#### Optional:

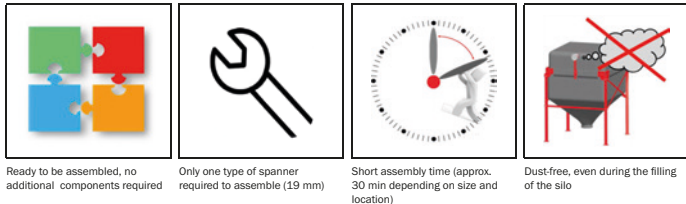
- Conveying auger or tailor-made auger
- Auger conveyor trough or tailor-made auger conveyor trough
- Suction point units with trough, etc.
- If required and upon request, the filling tube can also be placed on the long face side of the silo



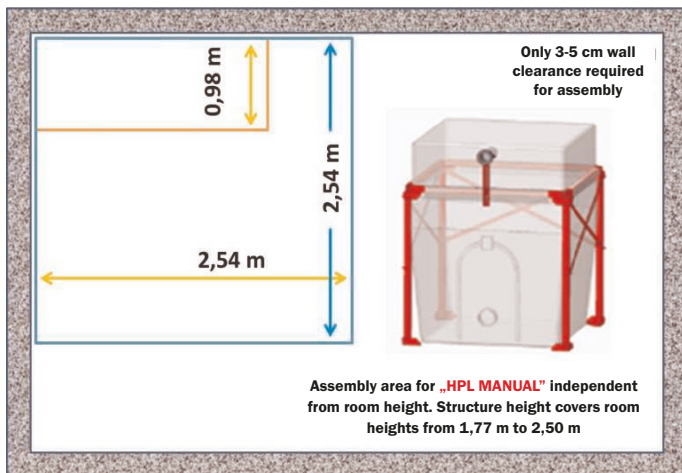
1. Silo top loops for ceiling fixation
2. Integrated impact and wear protection (coated fabric) inside the silo bag, from the top to the backside wall
3. Filling tube including fixation and fastening elements as well as coupling/connector with lid, chain and clamping strap
4. Steel structure with fixation and connecting elements
5. Diagonal steel reinforcements/stiffeners
6. Inspection opening D=35cm
7. High-tech fabric with antistatic properties, high UV-resistance, dirt-repellent and heat-setted/thermo-fixed
8. Conveyor trough with optionally built-in suction point unit(s) or conveying auger

## HPL „MANUAL”

The wood pellet storage **HolzPelletLager** with manual discharge for pellet stoves!  
Available in many different sizes and variations.



### Dimensions and sizes



Basic range available in many sizes from 3,28 m<sup>3</sup> to 16 m<sup>3</sup>

(corresponds arithmetically approx. 2,0 t to 10,7 t wood pellets with a bulk density of 0,65 t/m<sup>3</sup>)

Detailed information on dimensions and capacities can be found in the technical data sheet **HPL „MANUAL”**.

\*Additionally included in standard delivery:

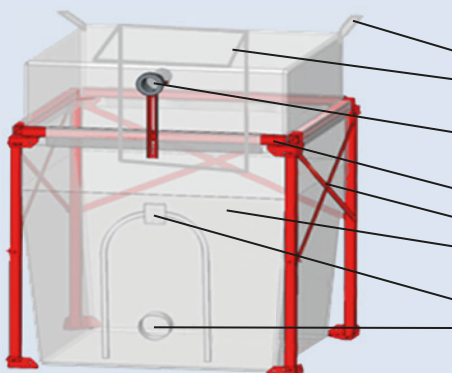
- Shut-off slide D = 15 cm with a special dust-reducer made of fabric and a clamping strap
- Large „accessible” opening with a dust-tight zipper and protection against any unintended opening

### Optional:

- The HPL „Manual” can also be combined with other automatic extraction tools like conveying auger, suction point units (placed on the bottom of the silo) or pellet stirrer.
- If required and upon request, the filling tube can also be placed on the long face side of the silo.



Due to our „modular concept”, special sizes and **customized designs** are available upon request.



1. Silo top loops for ceiling fixation
2. Integrated impact and wear protection (coated fabric) inside the silo bag, from the top to the backside wall
3. Filling tube including fixation and fastening elements as well as coupling/connector with lid, chain and clamping strap
4. Steel structure with fixation and connecting elements
5. Diagonal steel reinforcements/stiffeners
6. High-tech fabric with antistatic properties, high UV-resistance, dirt-repellent and heat-settled/thermo-fixed
7. Large „accessible” opening with a dust-tight zipper and protection against any unintended opening
8. Shut-off slide D=150 mm



## THE „ECO-MODEL RANGE”

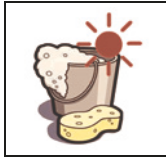
Latest technology combined with solid timber construction made by traditional craftsmanship



Ready to be assembled, no additional components required



Compatible with all popular boilers and stoves

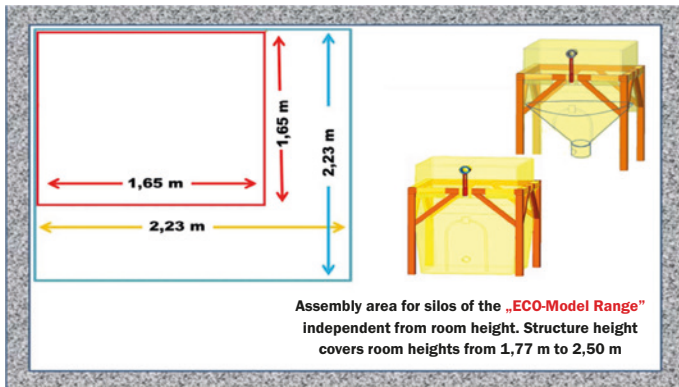


Low dirt pick-up and high UV-resistance due to fabric construction and colour



Dust-free, even during the filling of the silo

### Dimensions and sizes

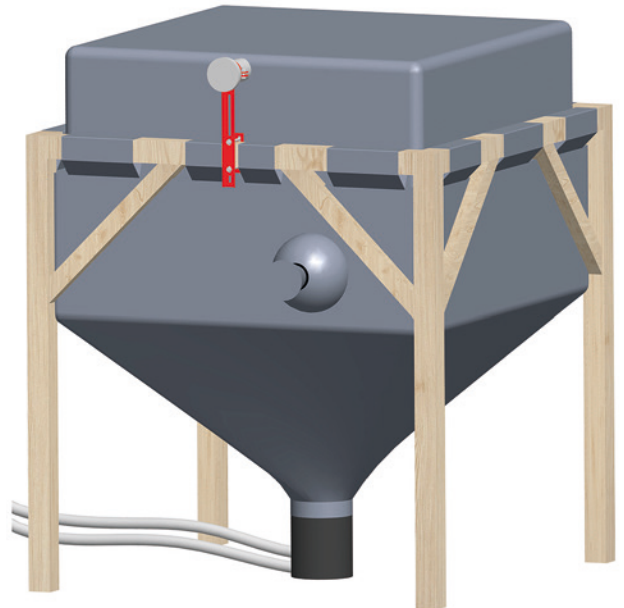


Detailed information on dimensions and capacities can be found in the technical data sheet „ECO”.



## HPS „ECO”

The silo **HolzPelletSilo** with timber structure for a „Pure Nature” feeling!



\*Additionally included in standard delivery:

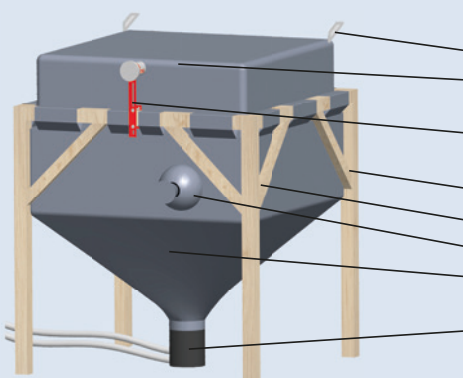
- Carpenter-based timber constructions (without any steel angle etc.)
- Discharge hopper D= 350 mm including clamping strap and built-in suction point unit or, if desired, a discharge hopper for an auger (without the auger)

## HPL „ECO”

The storage **HolzPelletLager** with timber structure for pellet stoves!

\*Additionally included in standard delivery:

- Carpenter-based timber constructions (without any steel angle etc.)
- Shut-off slide D= 15 cm with a special dust-reducer made of fabric and corresponding clamping
- Large „accessible” opening with a dust-tight zipper and protection against any unintended opening

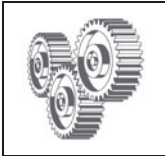


1. Silo top loops for ceiling fixation
2. Integrated impact and wear protection (coated fabric) inside the silo bag, from the top to the backside wall
3. Filling tube including fixation and fastening elements as well as coupling/connector with lid, chain and clamping strap
4. Carpenter-based timber construction
5. Diagonal timber reinforcements/stiffeners
6. Inspection opening D=35cm
7. High-tech fabric with antistatic properties, high UV-resistance, dirt-repellent and heat-setted/thermo-fixed
8. Discharge hopper with optionally built-in suction point unit (standard) or mechanic discharge device (for an auger)

## FOR THOSE WHO LIKE SELF-MADE CONSTRUCTIONS: THE **DO-IT-YOURSELF MODEL RANGE** IS YOUR BEST CHOICE!



Only one type of spanner  
required to assemble (19 mm)



Compatible with all popular  
boilers



Innovative products with  
proven technology

### DO-IT-YOURSELF: „VOLUFLA“

This special construction set VOLUFLA has been developed based on our VOLUMMAX silo for pneumatic discharge. Designed for installations in an existing basement room. With its flat bottom and a ground clearance of only 30 cm, it ensures an efficient room space usage and allows an easy pellets discharge without any additional manual work.

Included in delivery:

- Same flat bottom fabric part as for the VOLUMMAX with special steel construction including fixation elements and tensioning bars
- Circumferential fabric strip of approx. 30 cm for the connection to the room walls
- Vibro-discharge hopper with dust separator, dust collector nozzle and filter
- Up to two construction sets with different dimensions can be connected to one pneumatic system
- For installations with at least two construction sets we provide also the corresponding electric switching unit (reverser)

### DO-IT-YOURSELF: „BUFLA“

#### More than just an alternative to the „wooden conical self-made constructions“

This special construction set BUFLA has been developed based on our BPS "Linear" silo. It is also designed for basement installations but it has a long conical bottom instead of the VOLUFLA flat bottom. The conical bottom enables the use of two suction points and more (depending on the length of the silo) or alternatively a mechanic discharge with auger conveyor trough.

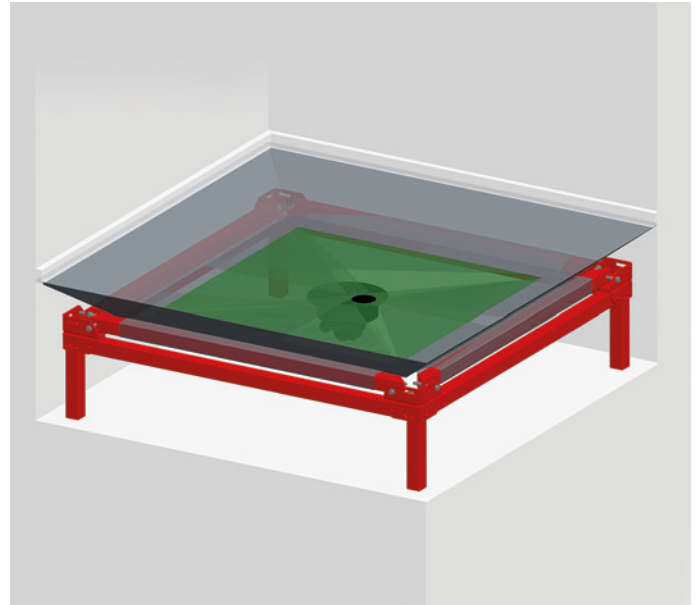
Included in delivery:

- Same conical bottom fabric part as for the BPS with special steel construction including fixation elements and tensioning units
- Circumferential fabric strip of approx. 30 cm for the connection to the room walls
- Discharge trough for pneumatic or mechanic discharge (does not include suction point units or conveying auger with motor)

**Optional:** conveying auger with motor, suction point units, impact and wear protection, filling tube, etc.

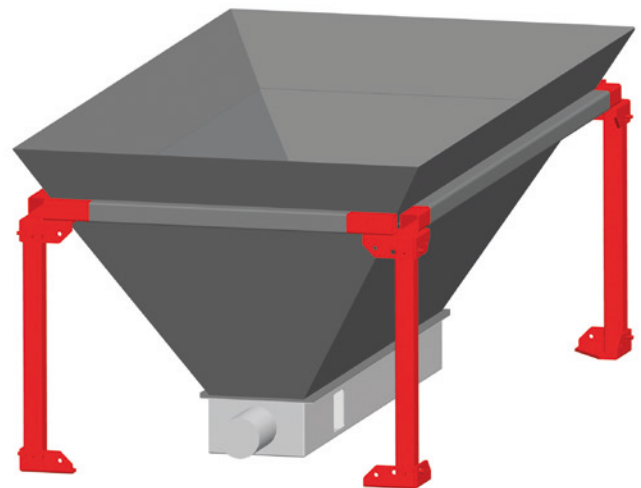
#### Further accessories can be found on page 12 „helpful accessories“

(Important note: To avoid damages in the basement walls, we recommend to cover the walls with rear ventilated timber prior installation)



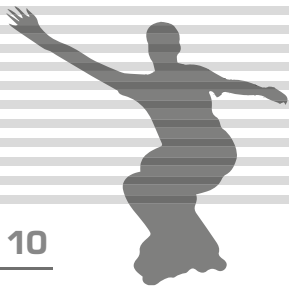
Basic range available for rooms with 2 to 25 m<sup>2</sup> ground space in three possible combinations: „Single“, „Duo“ or „Quatro“

**The perfect „do-it yourself“ concept at a professional quality**



Basic range available for rooms with 5 to 15 m<sup>2</sup> ground space: „single version“

**The perfect „do-it yourself“ concept at a professional quality.**



## „MIDI“

**A small silo designed for quick solutions or special occasions! with a volume of 500 L**



Compatible with all popular boilers



Only one type of spanner required to assemble (19 mm)



Short assembly time



DPMA : DE: 20 2013 011 471.6

The MIDI is a small, simple, practical and economical silo designed to help you when you need a fast or a special solution with manual filling (bagged pellets) and automatic discharge. It can be used as an intermediate storage for your boiler as well as a start-up silo for heating installers. Just insert the bended steel tubes into the four fabric loops, mount only eight clamp connectors and within 15 min you have your „MIDI“ ready to go. The discharge hopper is already preassembled and is equipped either with a mechanic discharge device for an auger or with a suction point unit.

Disassembly and transportation? Also very easy and fast. Just remove the eight clamp connectors and one of the bended steel tubes, fold it and the „MIDI“ is ready to be transported.

\*Additionally included in standard delivery:

- Protection netted cover

### Optional:

- Additional dust protection cover available upon request.

## PELLET „MAXI-SILO“

**A big silo designed for big solutions or special needs!**

The „MAXI-Silo“ standard model range can store up to 25 t pellets. If customized, it can cope with the storage of up to 60 t.



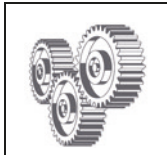
According to size, medium and weight we select the proper high-tech fabric



Modular concept with different sizes (individual adjustments possible)



Low dirt pick-up and high UV-resistance due to fabric construction and colour



Compatible with all popular boilers

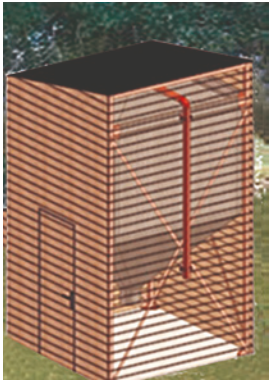
Each and every project is processed individually with custom services and solutions. As standard, our scope of services for customization includes:

- Dimensioning and static calculation
- Consideration of regulatory requirements and structural conditions
- Planning and adaptation to the requirements of your discharge and conveying system

Allg. Silotec GmbH, as a specialized company, provides as well „turnkey solutions“ and, if needed, we also support you on technical issues during your building application submission process.



## No available space in the house or basement?



Wood pellets can also be stored in your garden. Independently of its model and range, a silo equipped with waterproofed fabric sheeting or cover can durably withstand wind and weather. By being environmentally conscious, we produce and deliver the waterproofed fabric sheeting for example with a PVC-free coating, which does not affect the high breathability of the silo underneath. Of course, materials like timber or steel are also possible for the sheeting of the silo. All that in a modular principle design. In general, a subsequently equipment – of any kind of silo – with a waterproofed fabric sheeting can easily be done without any significant modifications (retroactively). Note that for the „**Pellet-MAXI**” model range, a structural engineering inspection/proof is required.

## SILO „OUTDOOR”



## HUBSILO

### The Silo with suspended bottom!

This special design was developed by our staff members already a long time ago and the name **Hubsilo** became quite popular in the field.

The purpose was to enlarge the available volume of a typical conical bottom silo. During the filling, the bottom of the silo gets lowered to the floor, thanks to its spring system, which in fact increases the available volume by flattening the bottom. During the emptying process, the spring system slowly pulls up the flatted bottom of the silo, which becomes with the time more conical formed, allowing the rest of the pellets to find the way out through the outlet.

After 10 successful years of this model range – and the development of other more modern and also very successful flat bottom silos like our **VOLUMMAX** – we have stopped its serial production and produce now **Hubsilo** only for fans and upon specific request in sizes up to 16 m<sup>3</sup> (approx. 9,4 t with a bulk density of 0,65 t/m<sup>3</sup>).



DPMA : DE: 10 2008 056 134.7

## SPECIAL SILOS

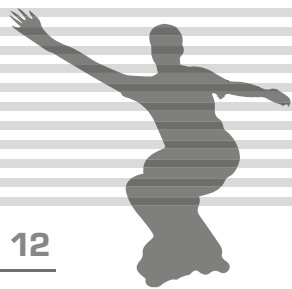
### Imagination has (almost) no limits!

You are looking for a solution that at first sight may appear totally crazy? Contact us, we are the right business partner for you!

Whether you need a solution for a mobile, short term, wood pellet store to be placed on the top of a mountain for helicopter filling or you need stackable silos for any kind of industrial purpose... we always have the right ideas and the perfect solution for you!

Several examples have proved it already!





## OUR WIDE RANGE OF „HELPFUL ACCESSORIES”

**Pneumatic systems for pellet boilers and stoves (available also as „retrofit kit”)**

**Choose one out of three model ranges:**



### **PelVa 1470 or 2000**

This is a pneumatic system for pellet boilers or combi boiler installations. Due to its long distance suction power, it is also applicable for industrial installations. It has a control unit (for vibro motor or an auger with pneumatic connection), a digital clock timer and a level sensor.

Dimensions: (L×W×H) 315 × 500 × 850 mm

- Power input approx. 1500 W or 1700 W
- For suction distances up to 25 m and height differences up to 8 m
- For suction cycles from 50 to 120 s (depending on the configuration)

The model range **PELVA** is (almost) always compatible with heating systems with an output of up to 200 KW. If required, we can also provide a compatible intermediate container.



### **Vacu-Slim 1200 or 1500**

This cost-efficient pneumatic system for wood pellets can be installed in (almost) every heating system with an output of up to 80 KW. As implied by the name, slim stands for its compact design.

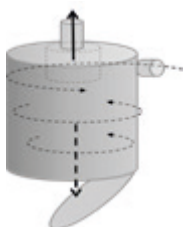
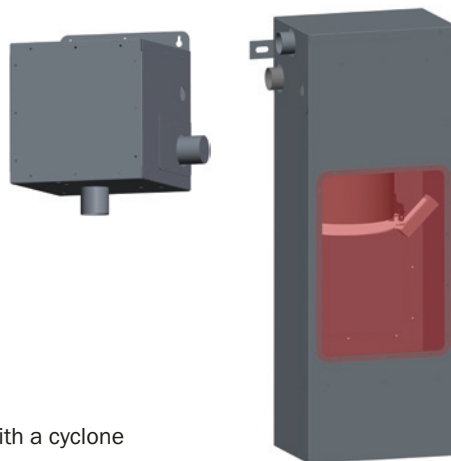
Dimensions: L×W×H: 335 × 335 × 335 mm

- Power input approx. 1500 W
- For suction distances up to 10 m and height differences up to 7 m
- An digital clock timer and a level sensor

The **Vacu-Slim** model range can also be mounted into one of our small intermediate containers (100 L or 300L), which has not only a stylish appearance but is also very practical and cost-efficient.

## The **MINI-DuoSlim** pneumatic system

As implied by the name, the **MINI-DuoSlim** is a combination of the DUO „two parts” and the „Vacu-Slim” pneumatic system. This model range has the same performance as the „Vacu-Slim” while having a more compact separate cyclone (Dimensions: [L×W×H] 270×335×850 mm), so that it can easier be „camouflaged”. Its separate turbine housing/casing with an intelligent control unit is included in delivery and is compatible with all pellet stoves.



**All pneumatic wood pellets systems** are equipped with a cyclone that allows a gentle pellet transportation and a high degree of separation (approx. 97%).

In addition, all model ranges contain a special coated separation screen, which ensures an increased operational reliability for pneumatic system and boiler.

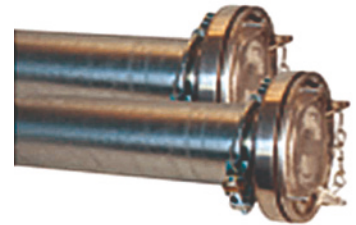
## FURTHER USEFUL ACCESSORIES YOU MIGHT NEED



Set of suction tubes/hoses with fixation/ fastening elements. For pellet transportation we recommend the PU-coated tube/hose.

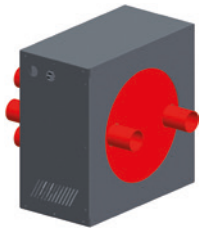


Impact and wear protection in different sizes for self-made construction, e.g. for our do-it-yourself model range „**VOLUFLA and BUFLA**“.



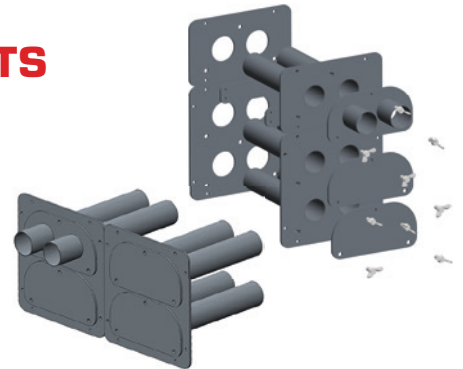
Filling and extension tubes, with your required coupling, e.g. Storz-A, TKW or Guillemín.

## SEVERAL SILOS? CHECK OUR SWITCHING UNITS



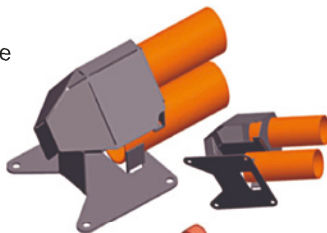
If several silos have to be connected with one pneumatic system, our **motor driven exchanger** can help you change up to four suction point units in an automated and comfortable way.

With our **manual exchanger** you can also connect two or more silos with one pneumatic system. In this case suction point units can be changed manually without additional tools.

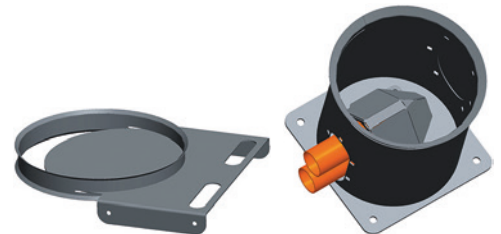


## EXTRACTION AND DISCHARGE SYSTEMS FOR ALL KIND OF WOOD PELLET SILOS

Suction point units for self-made constructions or for our discharge hoppers



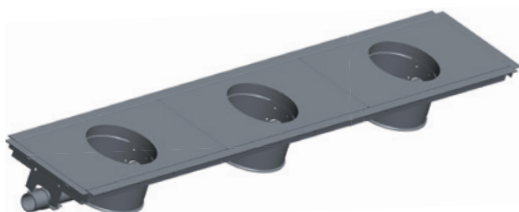
Discharge hopper with built-in suction point unit and shut-off slide



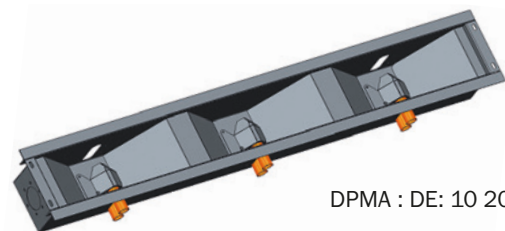
Discharge hopper with built-in mechanic discharge device for auger



Powerful and efficient conveying system for big boilers up to 1000 KW



Auger conveyor trough. Pellets inside the trough are conveyed through an internal auger to the external discharge point of the trough. Suction tubes/hoses or another auger can be connected to this point.



DPMA : DE: 10 2008 056 135.5

Suction conveyor trough, eg. to be combined with our electronic motor driven exchanger unit or with boilers that have an incorporated exchanger.

**Due to our own in-house production, we are able to provide you with individual tailor-made discharge systems and combinations.**



## WEIGHING SYSTEMS

This weighing system with electronic load cells guarantees a reliable and precise measuring of the silo content. Ideal not only for single-family houses but specially for apartment buildings, where exact numbers are needed in order to be able to calculate the rate of the advance payments for operating costs, that corresponds to each apartment.



## SOMETHING SPECIAL FOR WOOD BURNING FIREPLACES OR STOVES!

**Sometimes it can be quite uncomfortable and difficult to transport your wood logs from your wood log storage to your fireplace or stove.**

**We have two practical and stylish solutions for you!**



Our **wood log apron carrier** has been designed not only to help you transporting your wood logs from your central storage to your fireplace or stove, it also has the following advantages:

- You always have one hand free
- It helps you to take care of your back by allowing a healthier posture while carrying
- It helps you to maintain the floor clean by keeping the dirt inside of the apron while transporting

After use, just clean the apron, roll it and thanks to its compact and easy to store size you can keep it everywhere.

**Simple, practical and clean!**

Our **wood log carrying bag with rack** is a practical winding bag, which not only helps you transporting the wood logs to your fireplace or stove, but also can easily be hang up in the rack and be used as a little storage right next to your fireplace or stove.

**Practical, clean and stylish!**



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