



**Filtrowent**<sup>®</sup>  
The clean **air** factory



**SILOS AND  
BUFFOR TANKS**

**FOR BIOMASS  
AND OTHER BULK SOLIDS**

# FS SERIES SILOS

---

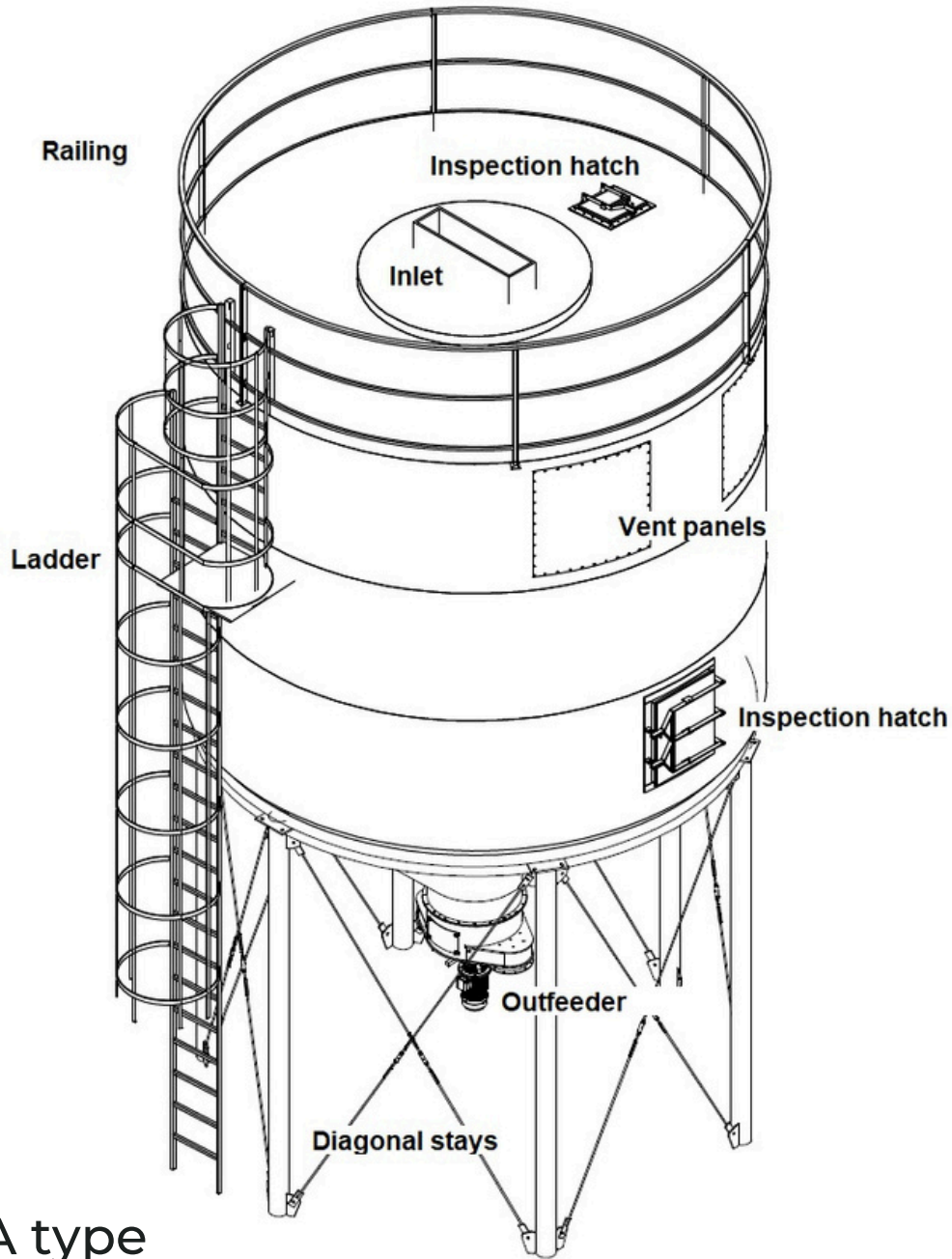
FS type silos are designed for storing dry biomass or other bulk solids. Our silos are made of galvanized construction steel sheets (the coat) and of sanded and coated carbon steel (the supporting structure). Silos are produced in three types: FSA, FSB and FSC, which differ in their diameter and height enabling wide selection from small to large industrial silos.

We also produce bespoke silos able to store materials of 650 kg/m<sup>3</sup> bulk weight.

- made of durable galvanized steel, supporting structure made of sanded and coated carbon steel
- equipped with access hatches, inspection windows (1 per each ring), ladders & railing
- all silos equipped with dry riser installation
- silo roof adapted for assembly of additional devices (cyclones, filters, etc)
- with outfeeder (2 x d300 mm outlets) - ATEX compliant
- the ATEX compliant silos equipped with decompression panels, pressure sensors and of adequate structural resistance



# FS SILOS



## ► FSA type

FSA silo model	Diameter [m]	Capacity [m <sup>3</sup> ]	Height [m]	Empty silo weight [kg]
FSA 3	4,5	50	8,36	6000
FSA 4	4,5	70	9,56	6500
FSA 5	4,5	90	10,76	7000
FSA 6	4,5	110	11,96	7500
FSA 7	4,5	130	13,15	8000

# FS SILOS

## ➤ FSB type

FSB silo model	Diameter [m]	Capacity [m3]	Height [m]	Empty silo weight [kg]
FSB 3*	6,0	95	9,15	9500
FSB 4	6,0	130	10,35	10000
FSB 5	6,0	165	11,55	10500
FSB 6	6,0	200	12,75	11000
FSB 7	6,0	235	13,95	11500

\*Non-ATEX silo due to the unfulfilled condition of the L/D ratio

## ➤ FSC type

FSC silo model	Diameter [m]	Capacity [m3]	Height [m]	Empty silo weight [kg]
FSC 3*	7,5	160	9,95	13500
FSC 4*	7,5	210	11,15	14000
FSC 5	7,5	265	12,35	14500
FSC 6	7,5	320	13,55	15000
FSC 7	7,5	375	14,75	15500

\*Non-ATEX silo due to the unfulfilled condition of the L/D ratio

- User Manual
- Detailed Assembly Instructions (drawings, photos, videos)
- Technical support and spare parts

# UBD BUFFER TANKS

---

UBD buffer storage tanks are designed for buffering (intermediate storage) and dosing of dry bulk materials such as sawdust, woodchips, granulates, pellet and similar.

The bulk material is usually received from a silo, a dust collector or a cyclone. Our UBD buffer tanks (with 7 m<sup>3</sup> capacity) enable buffering of the material and effective dosing with the use of a screw conveyor installed in the bottom part of the tank.

The conveying devices into which the material is transported, operate only when the tank is full and they work only for the time needed to empty the tank.

This solution allows you to significantly lower the energy costs of the operating devices.



# UBD BUFFER TANKS

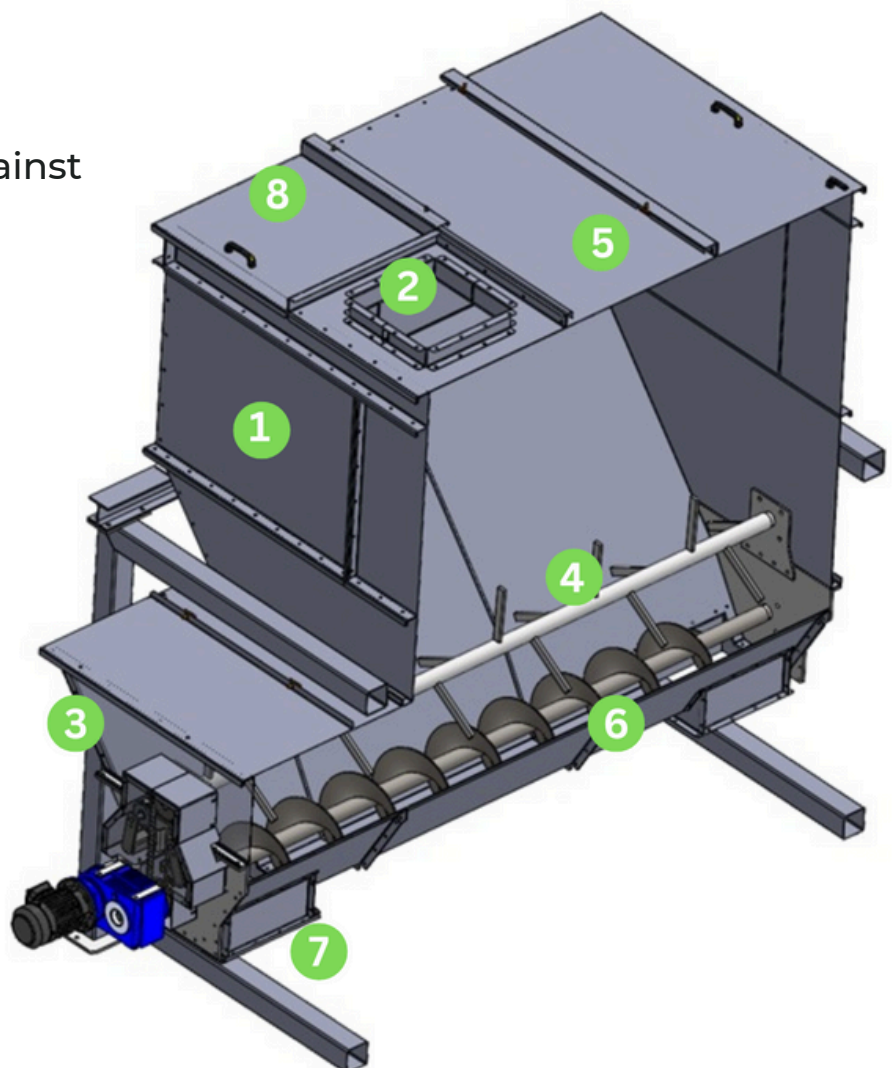
The UBD buffer tanks for bulk and dry materials consist of 2 main parts: the top part for storage and the bottom part for discharge.

Dry material enters the rectangular top storage part **1** through the tank inlet **2**. Here the product is stored until needed. The bottom hopper part **3** includes a rotating shaft **4**, which prevents bridging and a screw conveyor **6** which delivers the stored material to connected conveying devices. Emptying of the tank is carried automatically thanks to the fill up sensor **5** which activates the screw conveyor. The rotating movement of the screw conveyor transports the stored material in a continuous and steady way into the outlet **7**.

The standard version of UBD tank is equipped with inspection flaps (8) but individual modifications are possible.

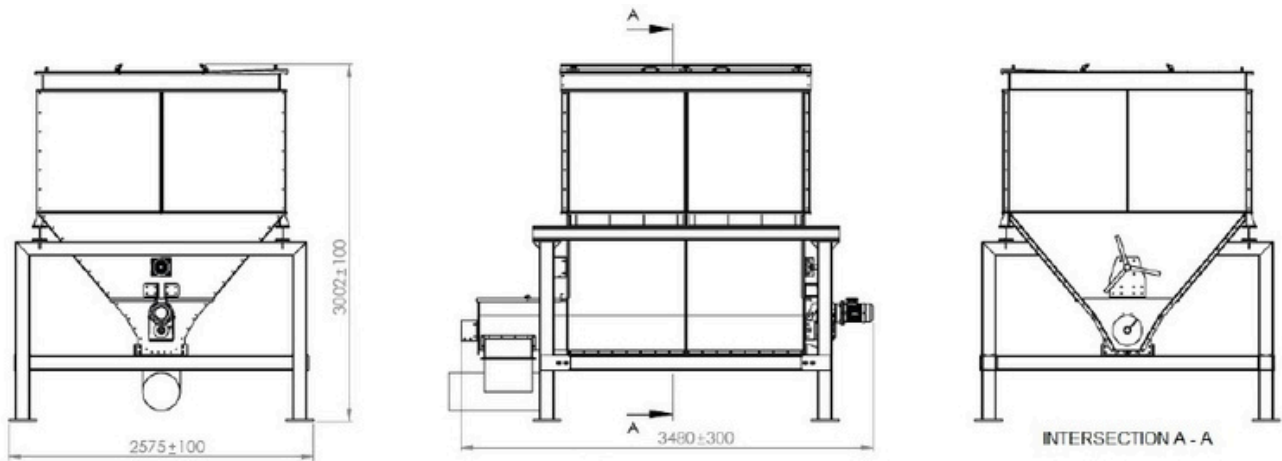
screw conveyor and a mechanism preventing bridging of the stored product.

- capacity 7 m<sup>3</sup>
- rotating shaft (against bridging)
- screw conveyor  
1,1 kW
- fill up sensor
- inspection flaps (8)



# UBD BUFFER TANKS

UBD buffer tanks are made of 2 mm and 3 mm thick galvanized steel, and they are produced in one standard size with an option of enlarging the storage top part (higher walls).



Feeding and emptying of the UBD tanks can be organized in various ways: with the use of a rotary valve, a screw or chain conveyor or pneumatic transport.



## COMPONENTS FOR DEDUSTING SYSTEMS

- cyclones
- pneumatic sliding dampers
- pneumatic diverters
- screw conveyors
- rotary valves
- ATEX protective systems
- grinding tables and extraction walls
- extraction fans