

# ACHBERG® silo



Detailed information can be found at [www.achberg.com/en/products/silo](http://www.achberg.com/en/products/silo) or scan the QR code:



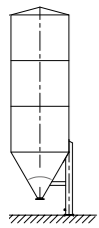
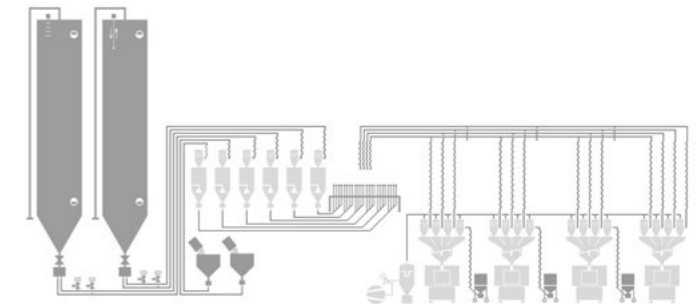
## Silo plant construction

Our storage silos, double chamber silos, mixing and homogenization silos as well as loading silos are made of aluminium and stainless steel. Silo plant construction at ACHBERG starts with a needs assessment and ends with after-sales service.

We unload, store, mix and load your high-grade bulk material safely and economically. While doing so, we take into account the unique properties of your bulk material in terms of wear, flow characteristics, moisture absorption and inflammability. The control technology is planned, programmed and produced by us.

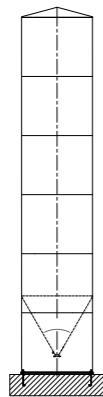
## Injection moulding

This illustration shows a common material supply in an injection moulding company for technical plastic parts. The plastic granules are stored in silos, conveyed to the dryers and then distributed to the individual injection moulding machines. Our silos and small containers protect your high-grade plastic granules from contamination. The coupling tables and pipe systems are professionally installed by our partners (manufacturers of central material feeding systems), whereby coupling tables from ACHBERG can be equipped with coding (RFID technology) on request.



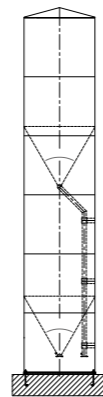
### Indoor silo

- 1.4 m<sup>3</sup> – 19.5 m<sup>3</sup>
- Cone angle 90° and 60°



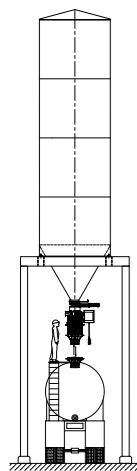
### Outdoor silo

- 24 m<sup>3</sup> – 337 m<sup>3</sup>
- Cone angle 90° and 60°



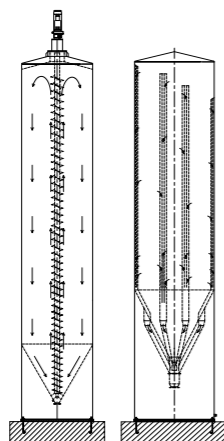
### Double chamber silo

- 2 x 42 m<sup>3</sup> – 2 x 148 m<sup>3</sup>
- Cone angle 90° and 60°



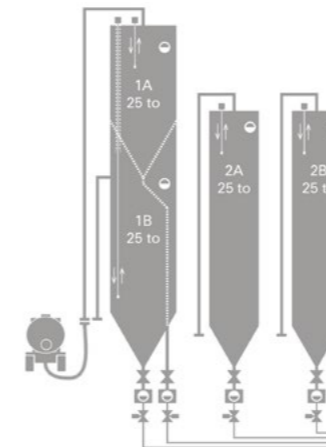
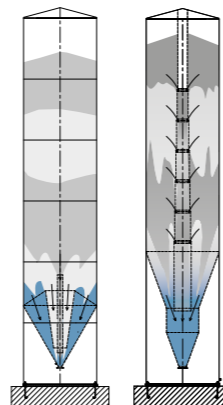
### Loader silo

- 23 m<sup>3</sup> – 355 m<sup>3</sup>
- Cone angle 60°



### Mixing- and homogenization silo

- 1.6 m<sup>3</sup> – 266 m<sup>3</sup>
- various homogenisation processes

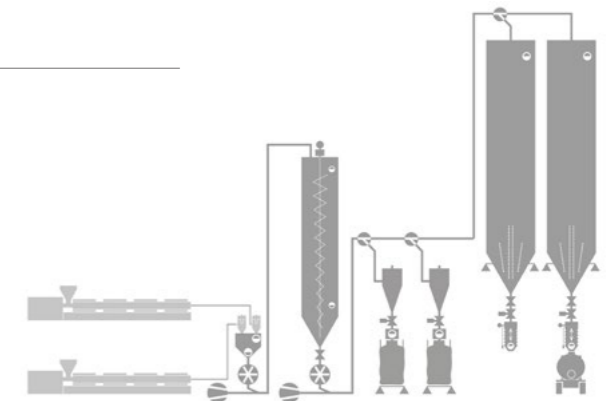


## Batch splitting

In order to be able to track batches, it is imperative to store raw materials separated by batch. Each batch delivered by a silo vehicle (approx. 25 tonnes) is filled into a separate silo chamber. The material is also removed separately for each batch. After the silo chamber of batch A has been emptied, an automatic or manual switchover to the silo chamber of batch B takes place. To achieve this, our specially developed pneumatic slides at the suction point of the silo suction boxes open and close. The process is controlled and monitored via the touch panel or our silo control. Batch switching can also be logged on request, and an interface to a higher-level controller of the material feeding system can be provided.

## Recycling / regranulation

Plastics are collected, washed, shredded, dedusted and fed to the extruder as single-type regrind. After the extrusion process, the regranules are homogenised in mixing silos before being filled into big bags or silo vehicles. We design and realise silo systems that are precisely tailored to your production processes.



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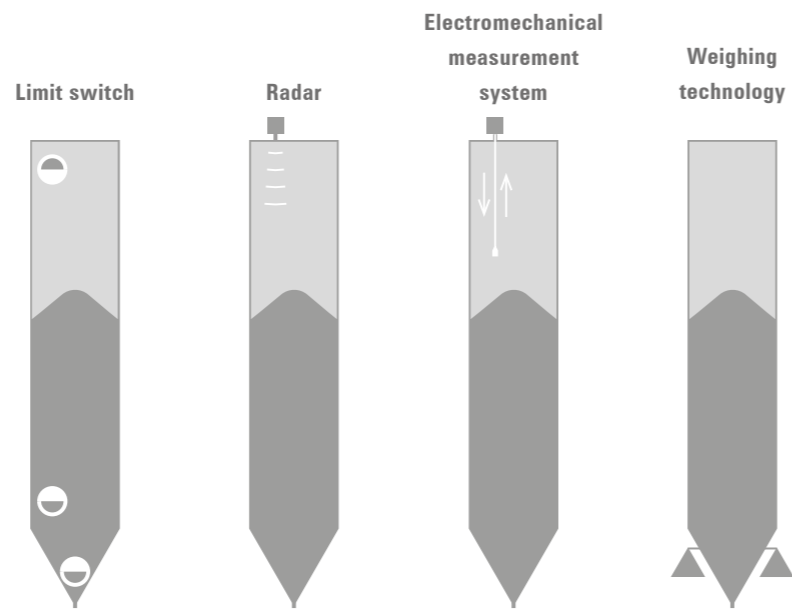
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## Level measuring technology

Various factors determine what level measuring technology is right for you. But for us, the reliability of the measuring technology is always the most critical aspect. The measurement result is influenced by the positioning of the measuring device, proper parametrisation, the silo geometry, the bulk solid characteristics and the correct evaluation or display of the measurement result.

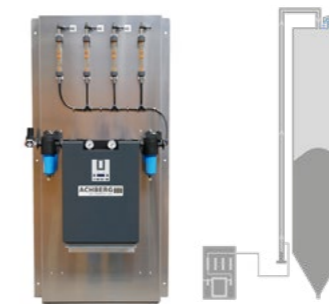
Indeed, there are many factors to consider! We have extensive know-how from thousands of successfully operated measuring points.



## Dry air system

The system is used to prevent water accumulation in the silo (condensate formation).

→ for 1–4 silo chambers



## Wear protection

For the conveyance of highly abrasive bulk materials (e. g. glass fibre reinforced plastic granules) we offer filling pipes made of hardened stainless steel.



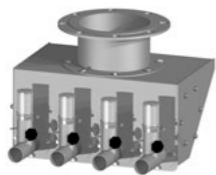
## Central filling points



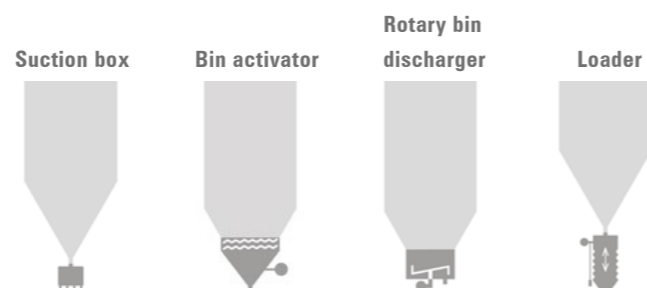
## Discharge

The discharge of free-flowing bulk materials is no problem when the mass flow is correctly dimensioned. This includes most of the plastic granules, for which we offer suction boxes with a different number of suction points and suitable for the industry-standard material line diameters of 38–84 mm for suction from silos.

“Granule” suction box



“Powder” suction box



## Transport and assembly

